### Environmental Assessment (EA) Report

PCT SE Paper GA ATC Site # 201440 S Hwy 199 Dublin, GA 31027

Prepared for

American Towers LLC 10 Presidential Way Woburn, MA 01801

Prepared by

Tower Engineering Professionals, Inc. 326 Tryon Road Raleigh, NC 27603

October 08, 2015

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### American Tower Corporation FCC NEPA CHECKLIST (47 CFR Subpart 1, Chapter 1, Sections 1.1301-1.1319)

**Site Name:** PCT SE Paper GA **Site Address:** S Hwy 199 Site Number: 201440

	Special Interest Item	Pol	ential E	ffec
		Yes	No	N
1	Is the antenna structure located in an officially designated wilderness area?		X	
2	Is the antenna structure located in an officially designated wildlife preserve?		X	
3	Is the proposed facility located within one mile of a National Scenic Trail?		X	
4	Will the antenna structure likely affect threatened or endangered species or designated critical habitats? (Ref. 50 CFR Part 402)		Х	
5	Will the antenna structure likely impact migratory birds? (Ref. Draft Programmatic Environmental Assessment of the Antenna Structure Registration Program 08/26/11)		X	
6	Will the antenna structure affect districts, sites, buildings, structures, or objects significant in American history, architecture, archeology, engineering, or culture that are listed, or potentially eligible for listing in the National Register of Historic Places (NRHP)? (Ref. 36CFR Part 800 regulations implementing Section 106 of the National Historic Preservation Act)		X	
7	Will the antenna structure affect Indian religious site(s)?		Х	
8	Will the antenna structure be located in a flood plain? (Ref. Executive Order 11988 and 40 CFR Part 6, Appendix A)		Х	
9	Will construction of the antenna structure involve significant change in surface features (e.g. wetlands, deforestation, or water diversion)? (Ref. Executive Order 11990 and 40 CFR Part 6, Appendix A)	Х		
10	Is the antenna structure located in a residential neighborhood and required to be equipped with high intensity white lights?		X	
11	Will the antenna structure equal or exceed total power (of all channels) of 2000 Watts ERP (3280 Watts EIRP) and have antenna located less than 10 meters above ground level?		X	
12	Will the roof-top antenna project equal or exceed total power (of all channels)?			

the FCC issues a 'Finding of No Significant Impact' (FONSI)

	Low hor	
Preparer's Signature: _		Date: October 08, 2015

Printed Name and Title: Lauren A. Norris, Environmental Project Manager

Company Name: Tower Engineering Professionals, Inc.

### 1.0 Introduction

American Towers LLC (ATC), in accordance with the Federal Communications Commission (FCC) and the National Environmental Policy Act (NEPA), has contracted Tower Engineering Professionals, Inc. (TEP) to prepare an Environmental Assessment (EA) for a proposed 150-ft AGL (155-ft AGL with appurtenances) monopole telecommunications tower, identified as PCT SE Paper GA (201440), located west of a portion of S Hwy 199, north of a portion of Interstate 16, and southeast of the City of Dublin, Laurens County, GA, Parcel: 203 064.

The EA is being prepared for submittal to the Federal Communications Commission (FCC), given that the FCC Programmatic Environmental Assessment of the Antenna Structure Registration Program (FCC PEA), implemented on June 18, 2012 requires additional environmental review for impacts to "waters of the U.S."

This assessment was also conducted pursuant to implementation of NEPA requirements by the FCC 47 CFR § 1.1307. Specifically, the assessment was conducted pursuant to FCC 47 CFR § 1.1311 (i.e., "environmental information to be included in the environmental assessment (EA))". This assessment has been prepared to determine whether the Undertaking may have a significant effect on the environment.

### 1.1 Site Description

Tower Engineering Professionals, Inc. (TEP) completed a FCC Compliance NEPA Checklist for a proposed 150-ft AGL (155-ft AGL with appurtenances) monopole telecommunications tower site identified by American Tower, LLC as PCT SE Paper GA (201440). According to the Approved Jurisdictional Determination Form completed by the U.S. Army Corps of Engineers dated June 29, 2016, approximately 0.0106-acres (~461.5-sq. ft.) of the project area consists of "waters of the U.S." subject to regulation under Section 404 of the Clean Water Act (CWA).

### 1.2 Site Location

The proposed telecommunications tower compound lease area and the proposed access & utility easement will be located west of a portion of S Hwy 199, north of a portion of Interstate 16, and southeast of the City of Dublin, Laurens County, GA (See Appendix - Site Map). The proposed tower compound lease area, associated 30-ft buffer surrounding the proposed tower compound lease area, and the proposed access & utility easement will be located on the northwestern portion of an approximately 3,303.36-acre parcel identified as Parcel: 203 064 by the Laurens County, GA Tax Assessors Office. Access to the site will be provided by a proposed 30-ft wide access & utility easement, which will proceed west from a portion of S Hwy 199, along an existing earthen/gravel access drive for approximately 0.75-miles before turning northeast and continuing approximately 0.203-miles along a portion of an existing two-track and earthen access drive, and continuing approximately 35-ft through a portion of an undeveloped forested area until reaching the proposed 100-ft x 100-ft American Towers LLC compound lease area.

### 2.0 Site Information

### 2.1 Alternatives Analysis

This site location was selected after multiple attempts to secure other locations in the carriers search ring. The initial candidate that was selected was on a parcel that was not owned by Plum Creek. After several attempts of negotiations the landowner was not willing to move forward. After that failed attempt the carriers Site Acquisition Vendor was informed that there was an existing agreement between ATC and Plum Creek Timber which led to review of an alternative location on the Plum Creek property. Plum Creek owns over three thousand acres which consumes a large portion of the search ring area. Several locations on the large parcel were discussed with Plum Creek representatives and most were either not approved because of future development plans or wetland issues. The current tower location was chosen because the location was not in wetlands or a floodplain, did not have a proposed future development plan, and still met the tenant's coverage objective. Additionally, this location allows for the use of an existing road for the majority of the access easement rather than having to construct an entirely new road.

### 2.2 Mitigation

Approximately 0.0106-acres of the project area consists of "waters of the U.S." subject to regulation under Section 404 of the Clean Water Act (CWA). Per the Conditions for the 401 Water Quality Certification, mitigation is required if the proposed project has impacts exceeding 0.10-acres or 300-linear feet. Therefore, as the proposed action impacts less than 0.10-acres of "waters of the U.S.", no mitigation is required.

### 2.3 Zoning & Local Community Issues

Based on the minimal amount of disturbance associated with the proposed action, TEP does not believe that any outstanding zoning or local community issues will arise from the proposed undertaking. TEP has not been made aware of any notifications the Client has received regarding any outstanding Zoning or Local Community issues for the proposed action.

### 3.0 Environmental Issues

The NEPA Checklist research conducted by TEP indicates that the proposed telecommunications tower compound lease area, associated 30-ft buffer, and the proposed access & utility easement are not located in an officially designated wildlife preserve; located in a residential zoned area and required to be equipped with high intensity white lights; and will not: affect threatened or endangered species or their designated critical habitats; affect districts, sites, buildings, structures or objects listed or eligible for listing in the National Register of Historic Places or affect Indian religious sites.

However, according to the USFWS National Wetland Inventory (NWI) Map and an informal wetland delineation completed by Moore Bass Consulting for the parent parcel, which was provided to TEP by ATC, a portion of the proposed 30-ft wide access & utility easement is located within a wetland. Additionally, according to the Approved Jurisdictional Determination Form completed by the U.S. Army Corps of Engineers dated June 29, 2016, approximately 0.0106-acres (~461.5-sq. ft.) of the project area consists of "waters of the U.S." subject to regulation under Section 404 of the Clean Water Act (CWA).. The construction drawings 'Sheet CB5 - Grading & Erosion Control Plan' completed by TowerSource, dated October 6, 2015 indicate that the placement of fill material within the wetland will be required to improve the existing access road.

Further, review of the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Panel # 13175C0350C dated 12/17/10, indicated a portion of the proposed 30-ft wide access & utility easement is mapped as being located within a Special Flood Hazard Area (SFHA): Zone A, areas inundated by the 1% annual chance flood with no base flood elevations (BFEs) determined. However, consultation with the Laurens County Floodplain Administrator, Don Bryant, indicated the proposed project, although in the immediate vicinity of a floodplain, does not impact the floodplain. Therefore, there will be no floodplain issues and no further consultation regarding floodplain impact is required.

The results of the NEPA Checklist completed by TEP conclude that a NEPA - Environmental Assessment (EA) will be required for the PCT SE Paper GA tower site to address the proposed undertakings impacts to a portion of a wetland.

### 3.1 Wilderness Area

Is the antenna structure located in an officially designated wilderness area? No

Based on a review of the National Wilderness Institute Map of Wilderness Areas, Wild & Scenic Rivers, National Natural Landmarks and UN Biosphere Reserves, dated 1995, and the Wilderness.net - U.S. National Wilderness Preservation System Map, the proposed facility is not located within an officially designated wilderness area.

### 3.2 Wildlife Areas

Is the antenna structure or facility located in an officially designated wildlife preserve? No

Based on a review of the US Fish and Wildlife Service: National Wildlife Refuge System Map, dated September 30, 2004, the proposed facility is not located within an officially designated wildlife preserve.

### 3.3 National and Scenic Historic Trails

Is the proposed facility located within one mile of a National Scenic Trail? No

Based on a review of the Bureau of Land Management Map of National Scenic and Historic Trails, revised July 2010, the proposed facility is not located within one mile of a National Scenic Trail.

### 3.4 Threatened and Endangered Species and Critical Habitat

Will the antenna structure or facility likely affect threatened or endangered species or designated critical habitats? No

Review of the USFWS Information, Planning, and Conservation System (IPAC) preliminary species list for Laurens County, GA indicated the possible presence of two (2) federally listed terrestrial threatened or endangered species: red-cockaded woodpecker (Picoides borealis) and the Eastern indigo snake (*Drymarchon corais couperi*). Additionally the aforementioned preliminary species list indicated the possible presence of one (1) candidate species: gopher tortoise (*Gopherus polyphemus*).

Review of the Georgia Department of Natural Resources Wildlife Resources Division (Georgia DNRWRD), results for the USGS 7.5-Minute Minter, GA Northwest Topographic Quadrangle, indicated the possible presence of two (2) protected terrestrial species: Rafinesque's big-eared bat (*Corynorhinus rafinesquii*) and the swamp buckhorn (*Sideroxylon thornei*).

The site inspection performed on July 8, 2015 consisted of a pedestrian inspection of the proposed action area and the immediate vicinity for indications of the presence of federally listed species and/or their critical habitats and preferred/suitable habitats, as described by the USFWS and the Georgia DNRWRD. Additionally, due to the nature of the project and the distance from the nearest river (greater than 1-mile), the proposed action area is not anticipated to have the potential to affect any of the federal or state listed aquatic species in Laurens County, GA (Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*)). Further, according to the USFWS Critical Habitat Portal, there are no officially designated critical habitats located on, or in the vicinity of the proposed action area.

Red-cockaded woodpecker (Picoides borealis): The red-cockaded woodpecker is listed as a federal endangered species in Laurens County, GA. According to the information obtained from the USFWS, the woodpecker prefers to nest in mature pine stands with low understory vegetation and prefers to forage in mixed pine and hardwood stands greater than 30 years of age and consisting of trees with an average diameter greater than 10-inches dbh. At the time of inspection the proposed action area consisted of a portion of an earthen/gravel access drive, a portion of an earthen and two-track access drive, and a portion of a forested area primarily occupied by early successional vegetation consisting of prickly Florida blackberry (Rubus argutus), muscadine (Vitis rotundifolia), common greenbrier (Smilax rotundifolia), sweetgum (Liquidambar styraciflua), dog fennel (Eupatorium capillifolium), pond pine (Pinus serotina) with sparse occurrences of water oak (Quercus nigra), black walnut (Juglans nigra), American beautyberry (Callicarpa Americana), and swamp cyrilla (Cyrilla racemiflora). The 30-ft northern, eastern, and western tower compound lease area buffer was primarily occupied by prickly Florida blackberry (Rubus argutus), common greenbrier (Smilax rotundifolia), sweetgum (Liquidambar styraciflua), dog fennel (Eupatorium capillifolium), muscadine (Vitis rotundifolia), and pond pine (Pinus serotina) and sparse occurrences of American beautyberry (Callicarpa Americana) and swamp cyrillia (Cyrilla racemiflora). The southern 30-ft buffer was primarily occupied by dog fennel (Eupatorium capillifolium), muscadine (Vitis rotundifolia), common greenbrier (Smilax rotundifolia), and prickly Florida blackberry (Rubus argutus), fescue (Festuca), and a portion of the existing two-track access drive and proposed ingress-egress & utility easement. The aforementioned pine and hardwood trees observed within the proposed action area were less than 6-inches dbh, therefore it is the opinion of TEP personnel that no potentially suitable nesting or foraging habitat for the red-cockaded woodpecker exists within the limits of the proposed action area. Additionally, no occurrences of the red-cockaded woodpecker were observed at the time of inspection. Further, the proposed action area is relatively small and utilizes an existing earthen/gravel access road and an existing two-track access drive. Therefore, due to the absence of potentially suitable habitat, lack of occurrences, and the minimal extent of disturbance associated with the proposed action it is the opinion of TEP that the proposed action will have **no effect** on the red-cockaded woodpecker (*Picoides borealis*).

Eastern indigo snake (*Drymarchon corais couperi*): The Eastern indigo snake is listed as a federal threatened species in Laurens County, GA. According to the information obtained from the USFWS Eastern indigo snakes are restricted to areas of xeric pine-oak sandhills that are inhabited by gopher tortoises. In Georgia the indigo snake is typically found in longleaf pine habitats. The indigo snake depends on the burrows of gopher tortoises for nesting. At the time of inspection the proposed action area consisted of a portion of an earthen/gravel access drive, a portion of an earthen and two-track access drive, and a portion of a forested area primarily occupied by early successional vegetation. No longleaf pine habitats or occurrences of gopher tortoise burrows were observed at the time of inspection. Additionally, the proposed action area is relatively small and utilizes an existing earthen/gravel access drive and an existing two-track

access drive. Therefore, based on the lack of preferred/suitable habitat, lack of occurrences, existing human disturbances, and the minimal size and scale of the proposed action, it is the opinion of TEP personnel that the proposed action will have **no effect** on the Eastern indigo snake (*Drymarchon corais couperi*).

Gopher tortoise (Gopherus polyphemus): The gopher tortoise is listed as a federal candidate species in Laurens County, GA. According to the information obtained from the USFWS, the gopher tortoise inhabits areas occupied by sandy soils, with herbaceous vegetation, and ample sunlight which are often are found within longleaf pine habitats that have periodic controlled burns to reduce hardwood trees and promote grasses and forbs. At the time of inspection the proposed action area consisted of a portion of an earthen/gravel access drive, a portion of an earthen and two-track access drive, and a portion of a forested area primarily occupied by early successional vegetation. No longleaf pine habitats or no occurrences of the gopher tortoise or burrows were observed within the proposed action area. Additionally, the proposed action area is relatively small and utilizes an existing earthen/gravel access drive and an existing two-track access drive. Therefore, based on the lack of preferred/suitable habitat, lack of occurrences, existing human disturbances, and the minimal size and scale of the proposed action, it is the opinion of TEP personnel that the proposed action will have **no effect** on the gopher tortoise (Gopherus polyphemus).

Rafinesque's big-eared bat (*Corynorhinus rafinesquii*): The Rafinesque's big-eared bat is listed as a rare species in Laurens County, GA. According to information obtained from the Georgia DNR website, the bat is a colonial cavity roosting bat with dark brown fur on its back and dark rooted white hairs on its underside and has large ears (approximately 1 to 1.5-inches). The bats roost in dilapidated structures or areas of mature forest, including bottomland and upland hardwoods and pine flatwoods near water. Large hollow cypress and gum trees with openings near the base appear to be favored within coastal plain bottomland areas. The proposed action area consisted of a portion of an earthen/gravel access drive, a portion of an earthen and two-track access drive, and a portion of a forested area primarily occupied by early successional vegetation. A swamp was observed north of a portion of the existing earthen/gravel access drive; however the proposed action is relatively small and utilizes the existing access drive. Further, no occurrences were observed at the time of inspection. Therefore, based on the lack of preferred/suitable habitat, existing human disturbances, lack of occurrences, and the minimal size and scale of the proposed action, it is the opinion of TEP personnel that the proposed action will have **no effect** on Rafinesque's big-eared bat (*Corynorhinus rafinesquii*).

Swamp buckhorn (Sideroxylon thornei): The swamp buckhorn is listed as a rare species in Laurens County, GA. According to the information obtained from the Georgia DNR website, the swamp buckhorn is a shrub that grows approximately 8-ft tall with rounded or bluntly pointed leaves, with small white flowers (August-early October), and round black fruit (May-June). The buckhorn is found within forested limesink depressions and swamps over limestone. The proposed action area consisted of a portion of an earthen/gravel access drive, a portion of an earthen and two-track access drive, and a portion of a forested area primarily occupied by early successional vegetation. A swamp was observed north of a portion of the existing earthen/gravel access drive; however the proposed action is relatively small and utilizes the existing access drive. According to the USGS Geologic Map of Georgia, the proposed action area and surrounding areas are comprised of the Neogene undifferentiated formation which consists of sandstone and claystone. Further, no occurrences of the swamp buckhorn were observed at the time of inspection. Therefore, based on the absence of preferred/suitable habitat, existing human disturbances, lack of occurrences, and the minimal size and scale of the proposed action, it is the opinion of TEP personnel that the proposed action will have **no effect** on the swamp buckhorn (Sideroxylon thornei).

### 3.5 Migratory Birds

In conforming to the United States Fish & Wildlife Service's "Service Interim Guidelines For Recommendations On Communications Tower Siting, Construction, Operation, and Decommissioning," the proposed telecommunications tower is anticipated to be monopole in design, less than 155-ft AGL, and unlit thereby minimizing impacts to migratory birds. In addition, the proposed tower compound lease area and associated 30-ft buffer area and the proposed ingress-egress & utility easement for this project are not located within 300-ft of a wildlife refuge, national wilderness area, native grassland, ridge-line, mountain top, coastline or area commonly known to have high incidences of fog or low clouds, where migratory birds may be found. During the site investigation, no nests were observed within the project site or immediate surrounding area. Therefore, it is expected that there will be no potential for significant impacts to migratory birds based upon the specifications of this project.

### 3.6 Historic and Significant Sites

Will the antenna structure or facility affect districts, sites, buildings, structures, or objects significant in American history, architecture, archeology, engineering, or culture that are listed, or potentially eligible for listing in the National Register of Historic Places (NRHP)? No

Based on the results of our coordination with the Georgia Department of Natural Resources Historic Preservation Division (HPD), the proposed undertaking will have no effect on properties listed in or eligible for listing in the National Register of Historic Places within the FCC designated 0.5-mile radius area of potential effect (APE).

TEP and Southern Research Historical Preservation Consultants, Inc. (HPC) completed archaeological assessments for the proposed telecommunications tower site. The aforementioned assessments found three (3) previously unrecorded prehistoric sites (9Ls335, 9Ls336, and 9Ls337) and TEP and Southern Research HPC recommended further investigation (Phase II Archaeological Evaluation) to determine the NRHP eligibility of site 9Ls337. TEP submitted the FCC Form 620, archaeological assessments completed by TEP and Southern Research HPC, and the proposed Phase II Scope of Work to the Georiga HPD on October 26, 2016. Georgia HPD responded on November 24, 2015 and stated that "Based on the information provided, HPD concurs that archaeological sites 9Ls335 & 9Ls336 are of unknown eligibility for listing in the National Register of Historic Places (NRHP) and that the portions of each site located within the area of potential effects (APE) do not retain sufficient integrity to contribute to the eligibility of each site. Additionally, HPD concurs that archaeological site 9Ls337 is of unknown eligibility for listing in the NRHP pending further archaeological testing. As such, HPD concurs that the recommended Phase II work plan for site 9Ls337 is adequate to determine the site's NRHP-eligibility."

The Phase II Archaeological Evaluation for site 9Ls337 was completed on December 15, 16, & 17, 2015, by Ms. Sarah Stephens, Secretary of Interior qualified archaeologist and architectural historian for TEP. It was the opinion of TEP that the site identified as 9Ls337 is of unknown eligibility for listing in the National Register of Historic Places (NRHP) and that the portion of the site located within the area of potential effects (APE) does not retain sufficient integrity to contribute to the overall eligibility of the site. TEP submitted the Phase II Achaeological Report to the Georgia HPD on January 14, 2016 and received concurrence on February 12, 2016.

TEP also provided written correspondence (ITC letters) to the City of Dublin Historic Board (CLG), Laurens County Board of Commissioners, Regional Historic Commissions of Georgia - Heart of Georgia-Altamaha Regional Commission (Region 9), Oconee Regional Library, Laurens County Historical Society, and the Georgia Historical Society on 7/1/2015 requesting any comments they may have regarding the proposed undertaking by 8/5/2015. Ms. Lynette Stoudt of the Georgia Historical Society responded on July 1, 2015 and stated that she did not believe she was qualified to comment. Ms. Robin Nail, Senior Planner/Historic Preservation Planner with the Heart of Georgia-Altamaha Regional Commission responded on 7/21/2015 and stated that their review of the 1976 Laurens County Historic Resources Survey indicated that no structures appear to be located within the APE. However, the Commission stated that due to the age of the survey there may be structures within the APE that are now old enough to be considered historic and requested to be a consulting party on the project. TEP personnel e-mailed the FCC Form 620, cultural resources assessment, construction drawings and site photographs to Ms. Nail on 10/26/15 and no additional response has been received to date. The aforementioned comments from the Georgia Historical Society and the Heart of Georgia - Altamaha Regional Commission were submitted to Georgia HPD along with the FCC Form 620. Additionally, GA HPD sent a copies of their responses to the proposed project to the aforementioned Regional Commission on November 24, 2015 and February 12, 2016.

A public notice was published in the Courier-Herald on July 11, 18, 25, August 1, 8, 2015 inviting public comments on the project on or before August 10, 2015. An additional public notice as part of an FCC National Notice was published in the Courier Herald on August 13 and August 20, 2016 inviting public comments on environmental impact concerns about the proposed action through filing a request for Environmental Review with the FCC. TEP is unaware of any public comments on the proposed project for either public notice.

### 3.7 Indian Religious Sites

Will the antenna structure or facility affect Indian religious site(s)? No

Based upon a review of available information obtained from, the Bureau of Indian Affairs-Indian Reservations in the Continental United States, dated 5/96, and the responses to the FCC-Tower Construction Notification ID # 128471, filed June 26, 2015, no known Indian religious sites will be affected by the proposed facility.

### 3.8 Floodplains

Will the antenna structure or facility be located in a floodplain? No

Review of the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Panel # 13175C0350C dated 12/17/10, indicated a portion of the proposed 30-ft wide access & utility easement is mapped as being located within a Special Flood Hazard Area (SFHA): Zone A, areas inundated by the 1% annual chance flood with no base flood elevations (BFEs) determined. However, consultation with the Laurens County Floodplain Administrator, Don Bryant, indicated the proposed project, although in the immediate vicinity of a floodplain, does not impact the floodplain. Therefore, there will be no floodplain issues and no further consultation regarding floodplain impact is required.

### 3.9 Surface Features

Will construction of the antenna structure or facility involve significant change in surface features (e.g. wetlands, deforestation, or surface water diversion)? Yes

According to the USFWS National Wetland Inventory (NWI) Map and an informal wetland delineation completed by Moore Bass Consulting for the parent parcel, which was provided to TEP by ATC, a portion of the proposed 30-ft wide access & utility easement is located within a wetland. Additionally, according to the Approved Jurisdictional Determination Form completed by the U.S. Army Corps of Engineers dated June 29, 2016, approximately 0.0106-acres (~461.5-sq. ft.) of the project area consists of "waters of the U.S." subject to regulation under Section 404 of the Clean Water Act (CWA).. The construction drawings 'Sheet CB5-Grading & Erosion Control Plan' completed by TowerSource, dated October 6, 2015 indicate that the placement of fill material within the wetland will be required to improve the existing access road. Therefore an FCC NEPA-EA and a Department of the Army Nationwide Permit, Section 401 Water Quality Certification is required to address the proposed undertaking's impacts to the aforementioned wetland area.

Nationwide Permit (NWP) authorization under NWP #14 was received from the US Army Corps of Engineers - Savannah District - Regulatory Division on November 4, 2016. Per the authorization form, the Corps must be notified in writing at least 10-days prior to commencement of work, erosion and sediment control measures complying with the GA Erosion and Sedimentation Control Act of 1975 must be implemented, and an enclosed certification must be completed and mailed to the Corps within 30-days of completion of the authorized activity. Further, due to the expiration of all existing NWPs on March 18, 2017, the proposed project must be commenced or under contract to commence before March 18, 2017. The project will then have until March 18, 2018 to be completed. Please see the attached permit for additional clarification.

Additionally, a copy of the NWP application submitted to the Corps was mailed to the GA DNR Wetlands Management Unit on September 16, 2016. Per a conversation with Mr. Steve Weidl, the Acting Manager of the GA DNR Wetlands Management Unit on July 14, 2016, their office only requires a copy of the submittal for their records and does not provide responses or review of the project. Please see attached GA DNR blanket document for Water Quality Certification - 2012 Reauthorization of Nationwide Permits Statewide.

### 3.10 High Intensity Lighting

Is the antenna structure or facility located in a residential neighborhood and required to be equipped with high intensity white lights? No

High intensity white lights are required by FAA for aviation avoidance marking on towers over 499 feet above ground surface. Towers less than 499 feet are not equipped with high intensity white lights. Additionally, the proposed action does not include a lighting change or an increase of the existing tower height.

### 3.11 Radio Frequency Radiation

Will the antenna structure equal or exceed total power (of all channels) of 2000 Watts ERP (3280 Watts EIRP) and have antenna located less than 10 meters above ground level? No

This category applies to FCC licensees and not antenna structure owners. Antenna structures (towers) do not emit radio frequency radiation. FCC licensees transmitting from antennas mounted on American Tower-owned antenna structures are required to comply with radio frequency exposure standards.

Based on the specified elevation of the proposed antennas (>10 meters) and because the site will be located within a restricted area, no further study concerning radio frequency emissions is required.

### 3.12 Rooftop Radio Frequency Discussion

Will the roof-top antenna project equal or exceed total power (of all channels) of 2000 Watts ERP (3280 Watts EIRP)? N/A

### 4.0 Findings, Issues, and Recommendations

This report documents, TEP's findings from our NEPA Environmental Assessment (EA) for a proposed impact to "waters of the U.S." associated with a proposed 150-ft AGL (155-ft AGL with appurtenances) monopole telecommunications tower site identified by American Tower, LLC as PCT SE Paper GA (201440).

The proposed action will involve approximately 0.0106-acres (~461.5-sq. ft.) of impacts to "waters of the U.S." subject to regulation under Section 404 of the Clean Water Act (CWA) within portions of the proposed access & utility easement. Nationwide Permit (NWP) authorization under NWP #14 was received from the US Army Corps of Engineers - Savannah District - Regulatory Division on November 4, 2016.

This location was selected due to the minimal impacts to wetlands required (~0.0106-acres of impact), the absence of impacts to floodplain, the absence of future development plans by the landowner, and the ability to utilize an existing road for the majority of the access & utility easement. Tower Engineering Professionals, Inc., on behalf of ATC, hereby recommends a "Finding of No Significant Impact" for the proposed action.

### 5.0 Limitations

In preparing this report, TEP has relied on certain information provided by the Client and on information readily available to TEP at the time this assessment.

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### **Tribal Chart**

128471

TCNS Number

Tribe Name	Date of Initial TCNS Contact	Initial Response	Date 2nd Contact Letter Sent	Response to 2nd Contact	Date of FCC Referral or 10 Day Closeout Letter	Response to FCC Referral or 10 Day Closeout Letter	Final Consultation Status
Coushatta Indian Tribe	6/26/2015	Upload review packet including 620 into Dropbox folder and mail review fee.	1/14/16	"At this time, I know of no known sacred or ceremonial sites in the immediate area and do not require further Section 106 consultation on this project."			Tribe Responded with No Interest
Tuscarora Nation	6/26/2015	If no response within 30 days of NOO, no interest in pre-construction review	N/A	N/A	N/A	N/A	Exclusion Applies
Kialegee Tribal Town	6/26/2016	Mail review packet including FCC 620 and tribal review fee.	1/14/16	"We see no issue with this project continuing at this point."			Tribe Responded with No Interest
Seminole Nation of Oklahoma	6/26/2015	If no response within 30 days of NOO, no interest in pre-construction review	1/14/16	N/A	N/A	N/A	Exclusion Applies
Muscogee Creek Nation	6/26/2015	Mail review packet including 620 and review fee (include hard copy and CD).	1/14/16	"After reviewing all pertient information and our records, at this time we are currently unaware of any historic, cultural, regligious or sacred sites at this exact location. Therefore, we recommend a finding of "No Historic Properties Effected" for the proposed undertaking."			Tribe Responded with No Interest
United Keetoowah Band of Cherokee Indians	6/26/2015	Pay review fee.	1/14/16	"The UKBCI in Oklahoma has reviewed your project under Section 106 of the NHPA, and has no objections or comments at this time."			Tribe Responded with No Interest

## Environmental Assessment Report PCT SE Paper GA

	Tribe Responded with No Interest	Tribe Responded with No Interest Tribe Responded with No Interest	
Response to FCC Referral or 10 Day Closeout Letter			
Date of FCC Referral or 10 Day Closeout Letter			
Response to 2nd Contact	"Based on the information provided and a review of our records, we find that the proposed undertaking will have No Adverse Effect on the aforementioned unevaluated cultural resource, and no other historic properties of sacred and/or cultural significance to the Tribe are known to be in the project area. Therefore, ESTO has no objection to the project proceeding as described."	"The AQTITTHPO has areas of interest in the proposed location at this time we have identified no religious or cultural sites documented at this time." "Upon review of the Phase II Assessment report, we	concur with the determination that the portion of site 9LS337 within the project APE lacks cultural context and is not eligible for listing in the NRHP. Furthermore, we agree that site 9LS337 may extend outside of the project APE, and with an unknown NRHP eligibility, this portion should be avoided."
Date 2nd Contact Letter Sent	1/14/16	1/14/16	
Initial Response	Mail review packet, SHPO response, and review fee.	Email and mail review packet and fee.  Email and mail review packet and fee.	
Date of Initial TCNS Contact	6/26/2015	6/26/2015	
Tribe Name	Eastern Shawnee Tribe of Oklahoma	Alabama-Quassarte Tribal Town Thiopthlocco Tribal Town	

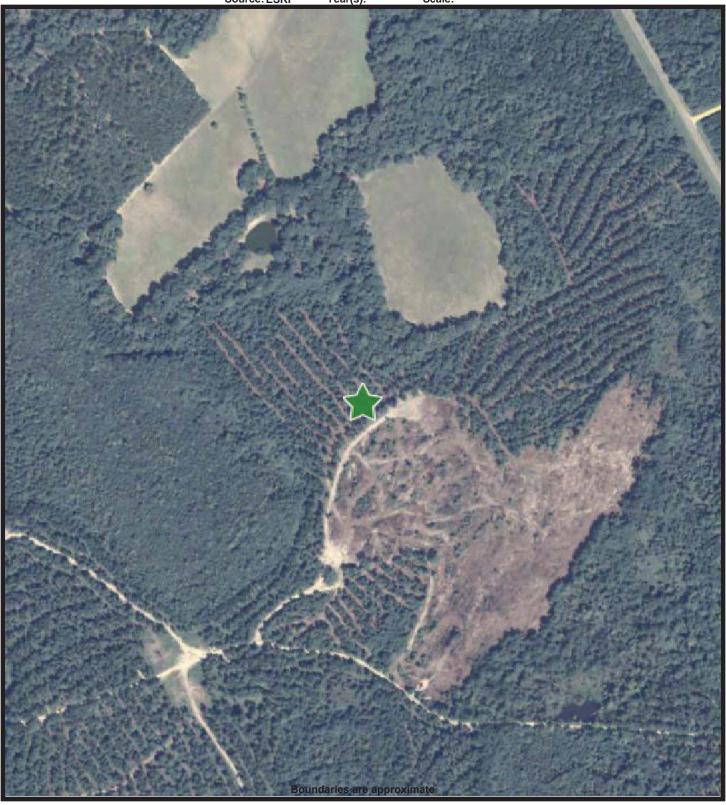
## Environmental Assessment Report PCT SE Paper GA

Tribe Name	Date of Initial	Initial Response	Date 2nd	Response to 2nd Contact	Date of FCC	Response to FCC Referral	Final Consultation
	TCNS		Contact Letter		Referral or 10	Referral or 10 Day Closeout Letter	Status
	Contact		Sent		Day Closeout		
					Letter		
Shawnee Tribe	6/26/2015	Mail review packet and fee.	1/14/16	"The Shawnee Tribe's tribal			Tribe Responded
				historic preservation officer			with No Interest
				concurs that no known			
				historic properties will be			
				negatively impacted by			
				construction of this tower site.			
				The Shawnee Tribe's			
				archives do no reveal any			
				issues of concern at this			
				tower location."			
Poarch Band of Creek Indians	6/26/2015	If no response within 30 days,	1/14/16	N/A	N/A	N/A	Exclusion Applies
		no interest in pre-construction					
		review.					

Appendix 1.

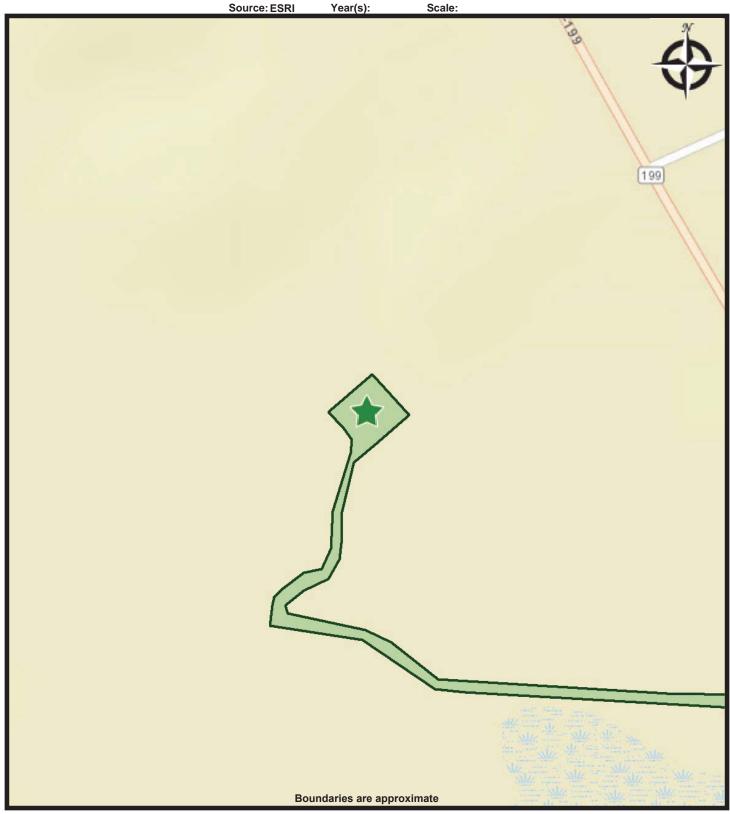
**Figures** 

Image Provided By ESRI Street Map Source: ESRI Year(s): Scale:





AERIAL - 2010
PCT SE Paper GA
ATC Site #: 201440
PCT SE Paper GA
Dublin Georgia 31027
DATE: 7/17/2015
CONSULTANT PROJ. #: 61793





STREET MAP
PCT SE Paper GA
ATC Site #: 201440
PCT SE Paper GA
East Dublin, Georgia 31027

DATE: 3/9/2016

**CONSULTANT PROJ. #: 201440** 

Image Provided By EDR USGS Topographic Maps





TOPO MAP - 2014
PCT SE Paper GA
ATC Site #: 201440
PCT SE Paper GA

East Dublin, Georgia 31027

DATE: 3/9/2016

CONSULTANT PROJ. #: 201440



# TELECOM DEVELOPMENT SERVICES LLC

SITE NAME:

### PCT SE PAPER GA

PROJECT DESCRIPTION

SITE NUMBER: 201440

### RAWLAND

TOTAL TOWER HEIGHT INCLUDING THE APURTENANCE - 155' AGL 150' MONOPOLE

LOCATION MAP	Old Pures and
VICINTY MAP	Album Wacon Wason Streetsore

LOCATION MAP	Old River And
	Authens  Authens  SITE

DRIVING DIRECTIONS FROM ATLANTA:		
Take I-75 S/I-85 S	67.9 mi	
Continue to follow I-75 S		
Keep left at the fork to stay on I-75 S	12.7 mi	
Use the left lane to take exit 165 for I-16 E toward Jim L Gillis Hwy/Savannah	0.6 mi	
Continue onto I-16 E	57.1 mi	
Take exit 58 for GA-199 toward Dublin E	0.3 mi	
Turn left onto GA-199 N	1.2 mi	
Turn left and site will be on the right	0.7 mi	

ELECTRICAL NOTES & ONE-LINE DIAGRAM

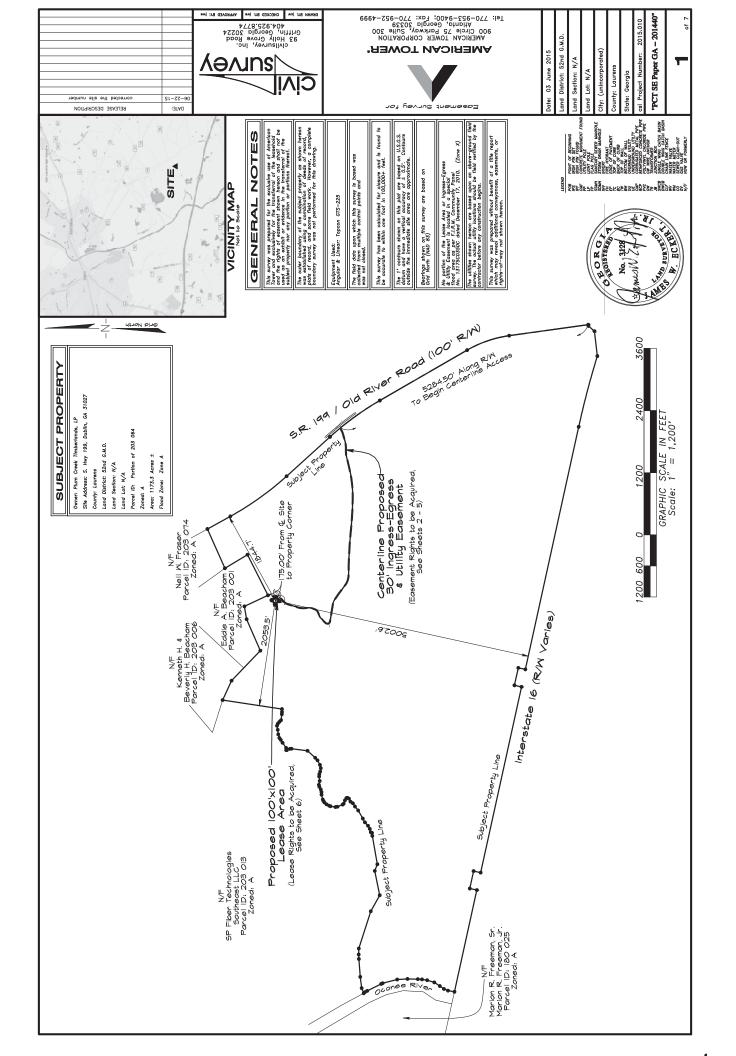


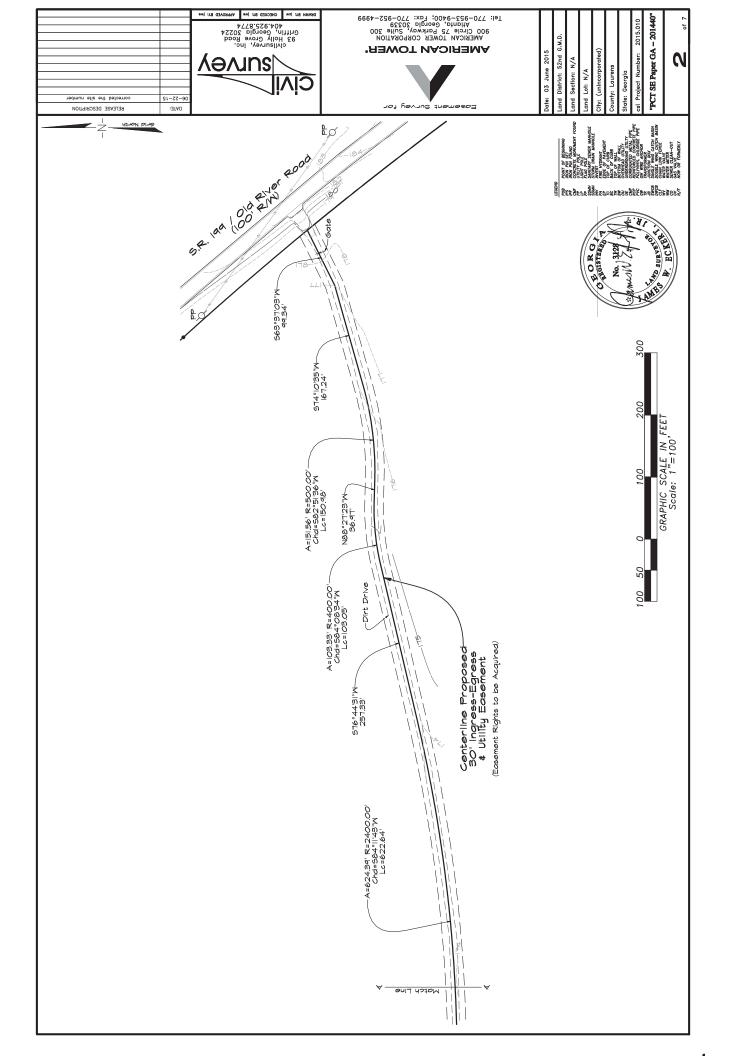
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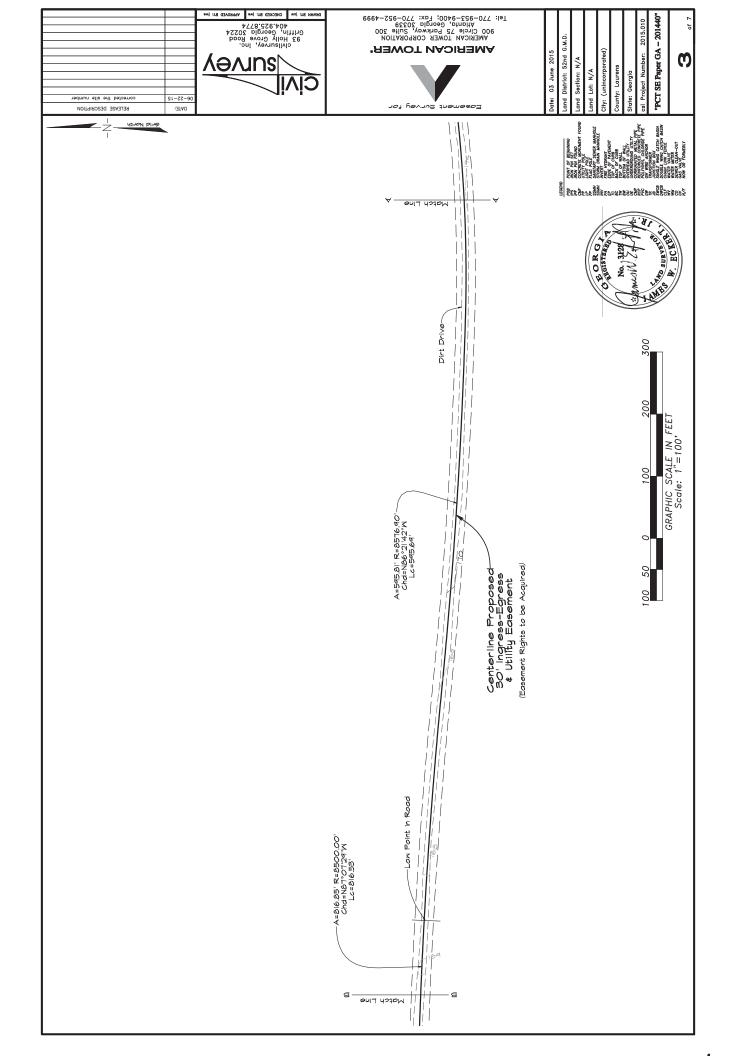
AMERICAN TOWER

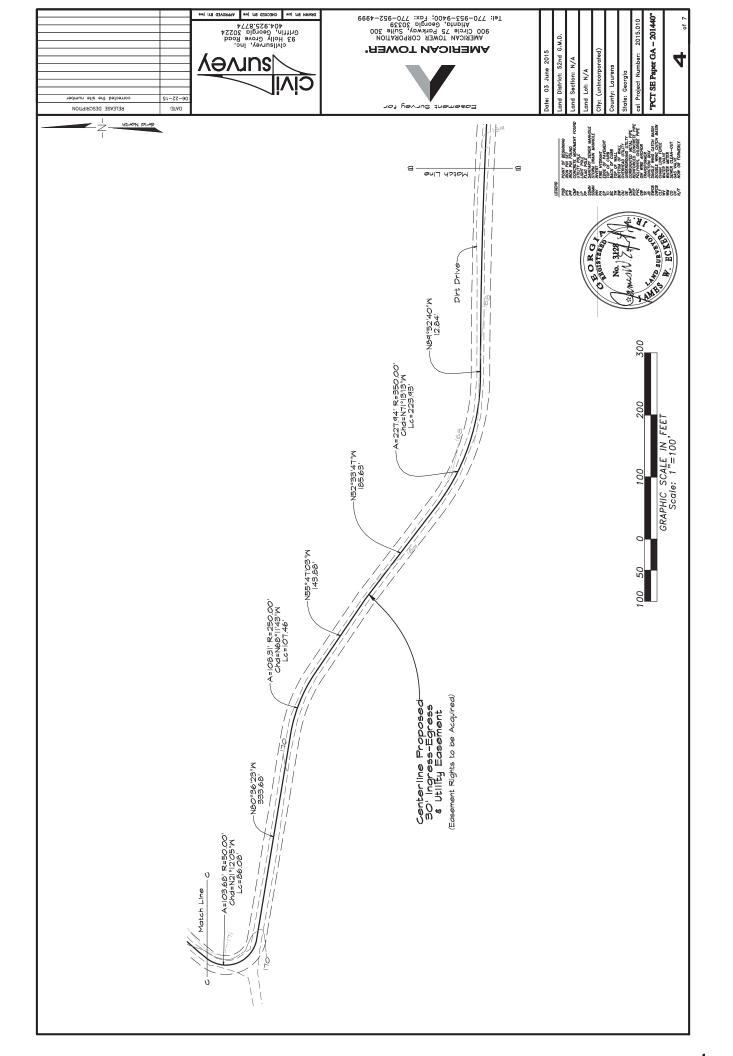
GREENFIELD

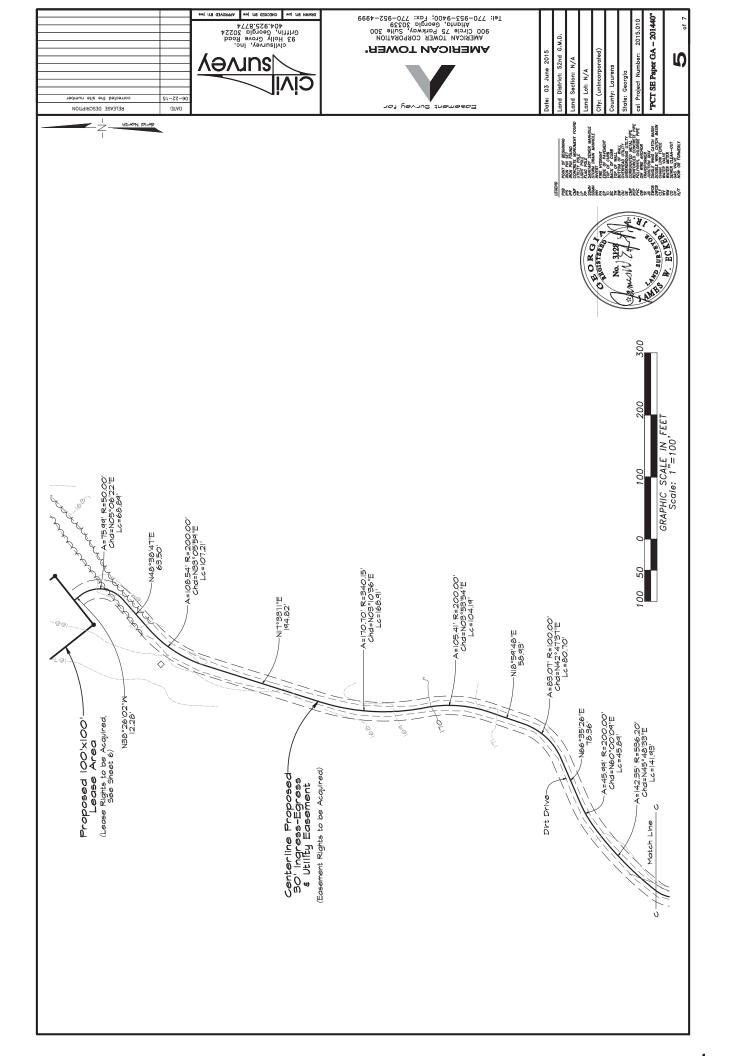
TITLE SHEET

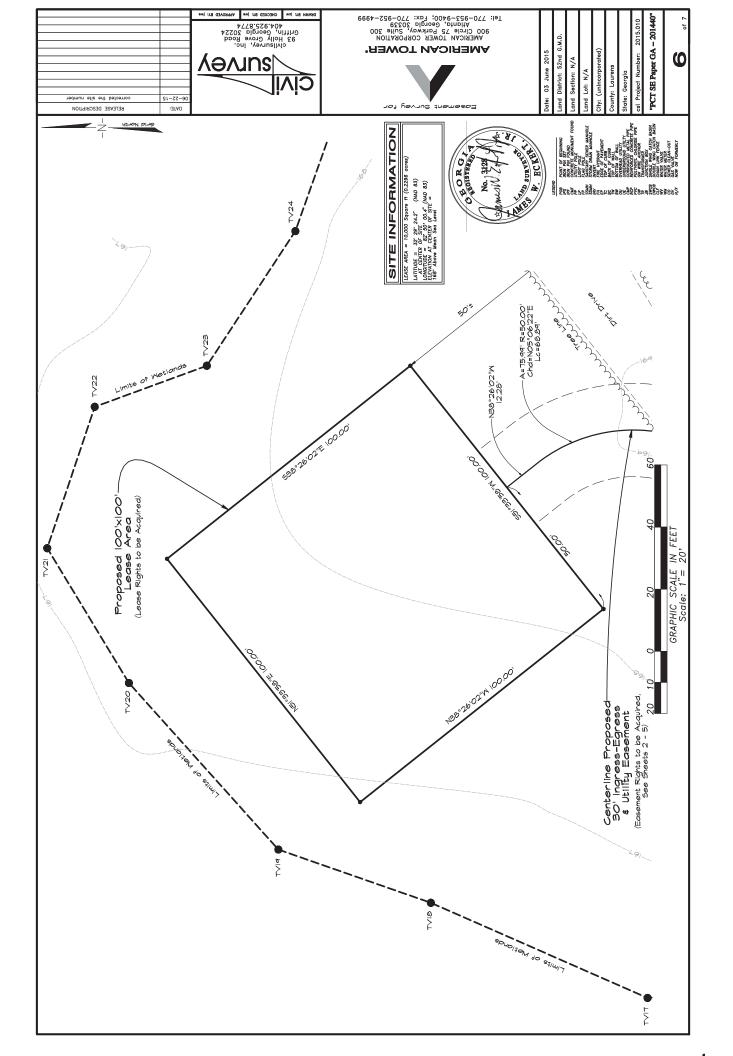












### SUBJECT PROPERTY

All that tract or parcel of land lying and being in the 52nd G.M.D., Laurens County, Georgia, and being more particularly described as containing 1173.3 acres, more or less, and being an portion of Tax Parcel ID 230 564 and being bounded on the east by State Highway 199, on the south by Interstate 16, and on the west by the Oconee River.

### LEASE AREA

All that tract or parcel of land lying and being in the 52nd G.M.D., Laurens County, Georgia, and being more particularly described as follows:

To find the Point of Beginning, COMMENCE at a point located on the western right of way of state tilleton from the intersection of said right of way with the northern right of way of interstate 16.

Take northern right of way of interstate 16.

There so with 74(10)28 west, 167.24 feet for a point, 537.03" West, 99.34 feet to a point;
There south 74(10)28 west, 167.24 feet for a point, 537.03" west, 99.34 feet to a point;
There south 74(10)28 west, 167.24 feet for a point;
There south 74(10)28 west, 167.24 feet for a point;
There south 74(10)28 west, 167.24 feet for a point;
There south 74(10)28 west, 167.24 feet for a point;
There south 74(10)28 west, 167.24 feet for a point;
There south 76(10)28 west, 167.24 feet for a point;
There south 76(14)24 west, 158.74 feet for a point;
There south 76(14)24 west, 158.74 feet for a point;
There south 76(14)24 west, 158.74 feet for a point;
There south 76(14)24 west, 158.74 feet for a point;
There south 76(14)24 west, 158.74 feet for a point;
There south 86(12)24 west, 158.74 feet for a point;
There south 86(12)24 feet along a curve to the right having a radius of 8506.00 feet and being scribed by a chard beging on curve to the right having a radius of 8506.00 feet and being scribed by a chard beging on curve to the right having a radius of 8506.00 feet and being scribed by a chard beging on curve to the right having a radius of 8506.00 feet and being scribed by a chard beging on curve to the right, waving a radius of 8506.00 feet and being scribed by a chard beging on curve to the right, waving a radius of 856.00 feet and being scribed by a chard beging on curve to the right having a radius of 856.00 feet and being scribed by a chard beging on curve to the right having a radius of 856.00 feet and being scribed by a chard beging on curve to the right having a radius of 856.00 feet and being scribed by a chard beging on curve to the right having a radius of 856.00 feet and being arcibed by a chard beging on curve to the right having a radius of 100.00 feet and being scribe

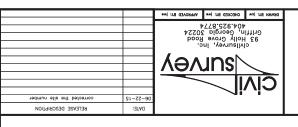
Thence, North 38'26'02" West, 100.00 feet to a point; Thence, North 51'33'58' East, 100.00 feet to a point; Thence, South 38'26'02" East, 100.00 feet to a point; Thence, South 51'33'58" West, 100.00 feet to a point and the true POINT OF BEGINNING.

Said tract contains 0.2296 acres (10,000 square feet), more or less

## 30' INGRESS-EGRESS AND UTILITY EASEMENT

Together with a 30' Ingress—Egress & Utility Easement lying and being in the 52nd G.M.D., Laurens County, Georgia, and being more particularly described by the following centerline data:

BECINNING at a point located on the western right of way of State Highway 199, said point being 2845. Sets, more or less, as a measured along said right of way in a northest direction the intersection of said right is with the northern right of way of Interstate 16. There is 151.56 feet along a curve to the right, having a clid its of 90.01. There is 151.56 feet along a curve to the right, having a radius of 500.00 feet and being scribed by a chord bearing South 8271.35 West, 150.58 feet to a point; There is 23.33 feet along a curve to the right, having a radius of 400.00 feet and being scribed by a chord bearing South 8271.35 West, 150.56 feet to a point; There is 22.33 feet along a curve to the right, having a radius of 400.00 feet and being scribed by a chord bearing South 8271.42 West, 150.35 feet to a point; There is 25.35 feet along a curve to the right having a radius of 400.00 feet and being scribed by a chord bearing North 8271.42 West, 152.56 feet to a point; Itenes 25.58 feet along a curve to the right having a radius of 8576.00 feet and being scribed by a chord bearing North 8271.42 West, 182.55 feet to a point; Itenes 16.85 feet along a curve to the left having a radius of 850.00 feet and being scribed by a chord bearing North 8271.42 West, 182.53 feet to a point; Itenes North 8273.42 West, 1284 feet for a point; Itenes North 8273.42 West, 1284 feet for a point; Itenes North 8273.42 West, 183.88 feet to a point; Itenes North 8273.42 West, 183.88 feet to a point; Itenes North 8273.42 West, 183.88 feet to a point; Itenes North 8273.42 West, 183.88 feet to a point; Itenes North 8273.42 West, 183.88 feet to a point; Itenes North 8273.42 West, 183.88 feet to a point; Itenes North 8273.42 West, 183.88 feet to a point; Itenes North 8273.42 West, 183.88 feet to a point; Itenes North 8274.82 feet along a curve to the right having a radius of 200.00 feet and being scribed by a chord bearing North 8273.72 Feet, 80.70 feet to a point; Itenes North 1879.42 feet along a curve to the right having a radius of 200.







Land District: 52nd G.M.D.

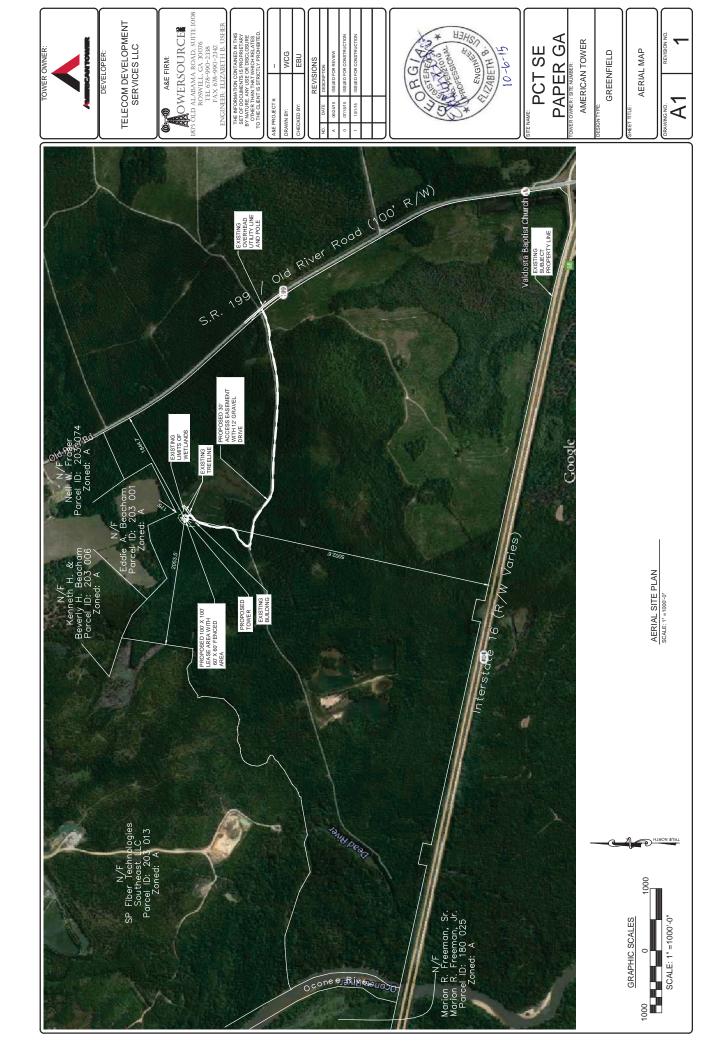
City: (unincorporated) County: Laurens

si Project Number: 2015.010 tate: Georgia

No. 13128

"PCT SE Paper GA - 201440"

O W. BCKER



ALL CONSTRUCTION TO COMPLY WIT H2012 BUILDING CODES

- CONTRACTOR IS TO COMPLY WITH THE REQUEST FOR QUOTATION (RFQ) AND CONSTRUCTION SPECIFICATIONS (LATEST REVISION) & BUILDING MANUFACTURER'S DRAWINGS, ALL PREVIOUSLY
- DIMENSIONS TO ALL EXISTING SITE FEATURES SHALL BE FIELD VERIFIED BY THE CONTRACTOR & ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES, PIPES, OR ANY THE SUBSIRFACE RESTRUCTURES PROFE TO COMMENCING WORK. THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITY LOCATING SERVICE 48 HES PRIOR TO DIGGING, DRILING, OR BLASTING.
- DEVELOPERSY REPRESENTATIVE SHALL BE NOTHED IN WRITING OF ANY CONDITIONS THAT VARY TROM THE PLANS THE CONTRACTORS WORK SHALL NOT VARY BROM THE PLANS WITHOUT THE EXPRESSED WRITTEN APPROVAL OF DEVELOPERS CONSTRUCTION PROJECT MANAGER OR DEVELOPERS REPRESENTATIVE.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO EXAMINE ALL DRAWINGS & SPECIFICATIONS AND TO CORDISINATE HIS WORK WITH THE WORK OF ALL OTHERS TO ENSURE THAT WORK PROGRESSION IS NOT INTERRUPTED.
  - CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH THE PROPERTY OWNER AS TO AVOID ANY INTERRUPTIONS WITH THE PROPERTY OWNERS OPERATIONS.
- CONTRACTOR SHALL KEEP THE PROJECT SITE FREE FROM ACCUMULATION OF WASTE MATERIALS & REGISSH AT ALL TIMES DIRING THE CONSTRUCTION PERIOD, & SHALL REMOVE ALL WISSTE MATERIALS & RUBBISH FROM THE PROJECT SITE AT THE COMPLETION OF WORK, EXCEPT THOSE SPECIFICALLY REQUIRED BY THE CONTRACT POCUMENTS TO BE LLEFT FOR THE OWNERS MAINTENANGE.
- THE CONTRACTOR SHALL RESTORE ALL PROPERTY TO IT'S PRE-CONSTRUCTION CONDITION TO THE OWNER'S SATISFACTION.
- THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY DISTURBED, DAMAGED, OR PRINO'LD FMONUMENTATION SHALLE BEREVAMODE AT THE CONTRACTOR'S EXPENSE UNDER THE SHERVISION OF A REGISTERED LAND SURVEYOR.
- DAMAGE TO EXISTING STRUCTURES & UTILITIES SHALL BE REPAIRED OR REPLACED TO OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE. MAINTAIN FLOW FOR ALL UTILITIES.
- ALL UTILITY CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER OR OWNER'S REPRESENTATIVE AND THE UTILITY COMPANY PRIOR TO EACH CONNECTION.
- UNLESS OTHERWISE INDICATED, DEVELOPER SHALL OBTAIN & PROVIDE CONSTRUCTION PERMITS. THE COUNTRY COOK SHALL DSTAIN AT THE GANDON COUNTY CONSTRUCTION LICENSES, JPON CONHY CONSTRUCTION LICENSES, JPON CONHY CONSTRUCTION LICENSES, JPON CONHEITION OF THE WORK, THE CONTRACTOR SHALL APPLY FOR & PROVIDE A CERTIFICATE OF OCCUPANCY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE FOR CONSTRUCTION.
- 15. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, & FEDERAL REGULATIONS.
- CONSTRUCTION WASTE MAY NEITHER BE BURNED NOR BURIED AND MUST BE TAKEN TO AN APPROVED LANDFILL.
- CONSTRUCTION MATERIALS OR EQUIPMENT. CONTRACTOR SHALL ENSURE THE SHELTER IS CLEANED AT CONCLUSION OF CONSTRUCTION AND THE FLOOR CLEANED, WAXED, AND BUFFED TO SHINE. CONTRACTOR IS RESPONSIBLE FOR THE CONDITION OF THE SHELTER DURING AND AFTER CONSTRUCTION. THE EQUIPMENT SHELTER SHALL NOT BE USED FOR STORAGE OF TOOLS, 17. SECURITY TO THE SITE SHALL BE MAINTAINED AT ALL TIMES.
- FOR GREENFIELDNEW TOWERS SITES, CONTRACTOR IS RESPONSIBLE FOR ENSURING THE TOWER IS TOPPED CLIGHTS ARE MOVILORED MOSNING. AND MOHE FORCH, THE TIME THE TOWER IS TOPPED OUT UNIT IS ITE HAS ALARMS CONNECTED TO THE OPERATIONS SWITCH OR NOC. CONTRACTOR TO WORTPY PROJECT MANAGER AT THE TIME THE TOWER IS TOPPED OUT TO FORWARD NOTIFICATION TO DEVELOPER.

### LEGEND

COMPRESSIO	•	METER	
CADWELD TYR		DISCONNECT SWITCH	
GROUND ROD	Ø	EASEMENT	
GROUND ROD	8	LEASE AREA	
CHEMICAL GR	•	PROPERTY LINE / ROW	
CODED NOTE	$\otimes$	CONTOUR LINE	920
CIRCUII BRE	°	TENCE	- Y- FENCE

- ROUND ROD NUMBER CIRCUIT BREAKER
- D WITH INSPECTION SLEEVE
  - COMPRESSION TYPE CONNECTION *(PE CONNECTION*
- GROUND WIRE

- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC 'SPECIFICATION FOR THE DESIGN, FABRICATION & ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- ALL INTERIOR STRUCTURAL STEEL SHALL BE FINISHED WITH ONE COAT FABRICATOR'S NON-LEAD, RED TOOKE PRIME, PRIMING SHALL BE PERFORMED AFTER SHOP FABRICATION TO THE GREATEST EXTENT POSSIBLE, ALL DINGS, SCRAPES, MARS, & WELDS IN THE PRIMED AREAS SHALL BE REPAIRED BY FIELD TOUGH-UP PRIOR TO COMPLETION OF THE WORK.
- ALL EXTERIOR STRUCTURAL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH THE SPECIFICATION ARM AZS ULLESS CHIEFWINE DOTHER SHOD EPERFORMED AFTER SHOP FABRICATION TO THE GREATEST EXTENT POSSIBLE, ALL DINGS, SCRAPES, MARS, & WELDS SHALL BE REPAIRED BY RELD TOUGHUP PRIOR TO COMPLETION OF THE WORK.
- HOLES SHALL NOT BE PLACED THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON THE DRAWINGS.

### CONNECTIONS:

- \*ALL VIELDING SHALL BE DONE USERNG TROYK ELECTROES AND SHALL CONFORM. TO ASC AND AWAS
  DOT A WHERE FILE IT WELL SHALL SHOWN TO ASC AND AWAS
  DOT A WHERE FILE IT WELL SHALL SHOWN THE WINNIAM SIZE PER YAGE, E.Z.A. IN
  THE ALCE YMANIALL OF STEEL CONSTRUCTION; Jan EDITION AT THE COMPLETION OF WELDING, ALL
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  WAY EA MINIMIAND OF WIND GOTO SHE WING THE GRALL WHINED ASSET ASSET OF SHALL SHOWN SHALL SHOWN THE WAY AND AND ASSET OF SHALL SHOWN THE WAY AND AND ASSET OF SHALL SHOWN THE WAY AND AND ASSET OF SHALL SHOWN THE WAY AND ASSET OF SHALL SHOWN THE WAY AND AND ASSET OF SHALL SHOWN THE WAY AND ASSET OF SHALL SHOWN THE WAY AND ASSET OF SHALL SHALL SHALL SHOWN THE WAY AND ASSET OF SHALL 5.2.
  - 5.3.
- 5.4

- DESIGNA CONSTRUCTON OF ALL CONCRETE ELIMENTS SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING APPLICABLE CODES ACI 301 "SECFICIATIONS FOR STRUCTURAL CONCRETE FOR BULIDINGS", ACIA 318 BULIDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
- 2. MIX DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING CONCRETE.
- CONCRETE SHALL BE NORMAL WEIGHT, 6% AIR ENTRAINED (±1,5%) WITH A MAXIMUM 4" SLUMP AND A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI UNLESS NOTED OTHERWISE.

### ASTM C 150, TYPE I ASTM A 185 ATSM C 33 NON-CHLORIDE REINFORCEMENT NORMAL WEIGHT AGGREGATE CONCRETE MATERIALS: PORTLAND CEMENT WATER ADMIXTURES

TELECOM DEVELOPMENT

SERVICES LLC

- 5. REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315.
- 6. REINFORCING STEEL SHALL CONFORM TO ASTM A616, GRADE 60, DEFORMED, UNLESS NOTED COTFEWIGE. WITH SHALL CONFORM TO ARRAN LESS NOTED OTHERWINGE. SPLICES SHALL BE CLASS "AND HOOKS SHALL BE ASTM STANDARD UNLESS NOTED OTHERWINGE.

LD ALABAMA ROAD, SUITE 1008

A&E FIRM:

OWERSOURCE

- 3 IN #6 & LARGER 2 IN, #5 & SMALLER 1 1/2 IN 3/4 IN NON-CHLORIDE MINIMUM COVER FOR REINFORCING STEEL: CONCRETE CAST AGAINST EARTH NON-EXPOSED SLAB & WALL NON-EXPOSED BEAMS & COLUMNS
- A 3.4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE IN ACCORDANCE WITH ACI 301, SECTION 4.2.4.
- INSTALLATION OF CONCRETE EXPANSION/MEDGE ANCHOR SHALL BE PER MANUFACTURERS RECOMMENDATIONS. NO REINFORCING SHALL BE CUT WITHOUT ENGINEER'S APPROVAL.
  - 10. CURING COMPOUNDS SHALL CONFORM TO ASTM C 309.
- 11. ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN ACI 301.
- DO NOT WELD OR TACK WELD REINFORCING STEEL.

- REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
- 15. CONCRETE SHALL NOT BE PLACED IN WATER, ICE, OR ON FROZEN GROUND.
- 16. DO NOT ALLOW CONCRETE SUBBASE TO FREEZE DURING CONCRETE CURING AND SETTING PERIOD.
  - 17. FOR COLD WEATHER & HOT WEATHER PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS.



DESCRIPTION	ISSUED FOR REVIEW	ISSUED FOR CONSTRUCTION	ISSUED FOR CONSTRUCTION		
DATE	06/24/15	07/15/15	10/1/15		
ON	٧	0	+		

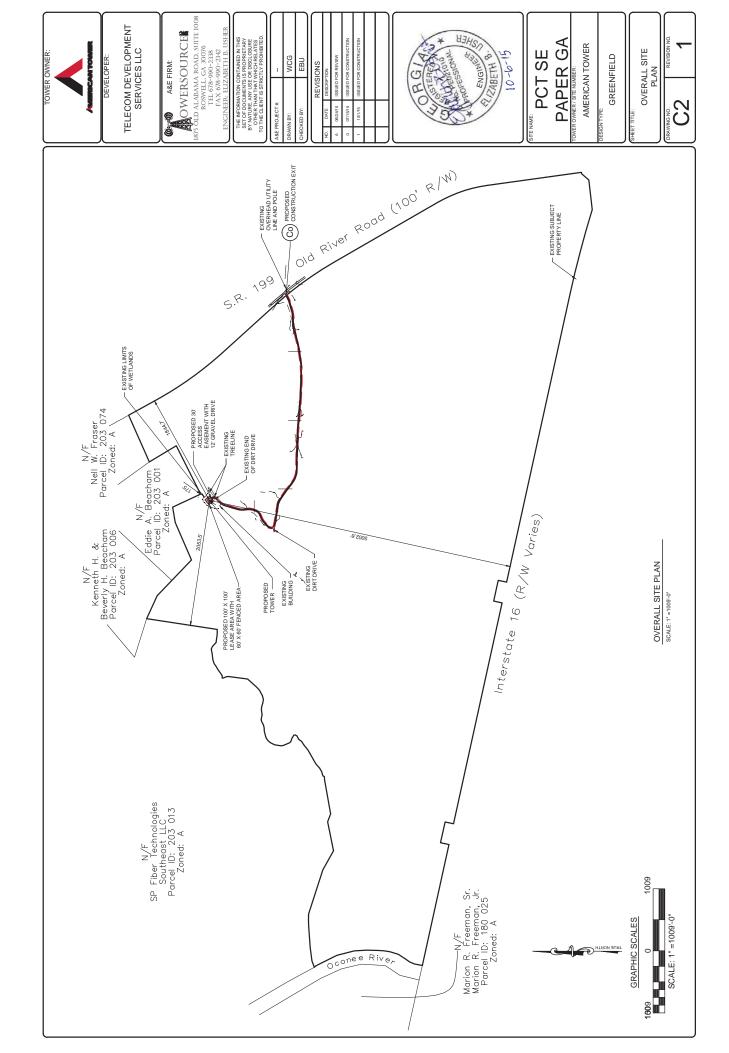


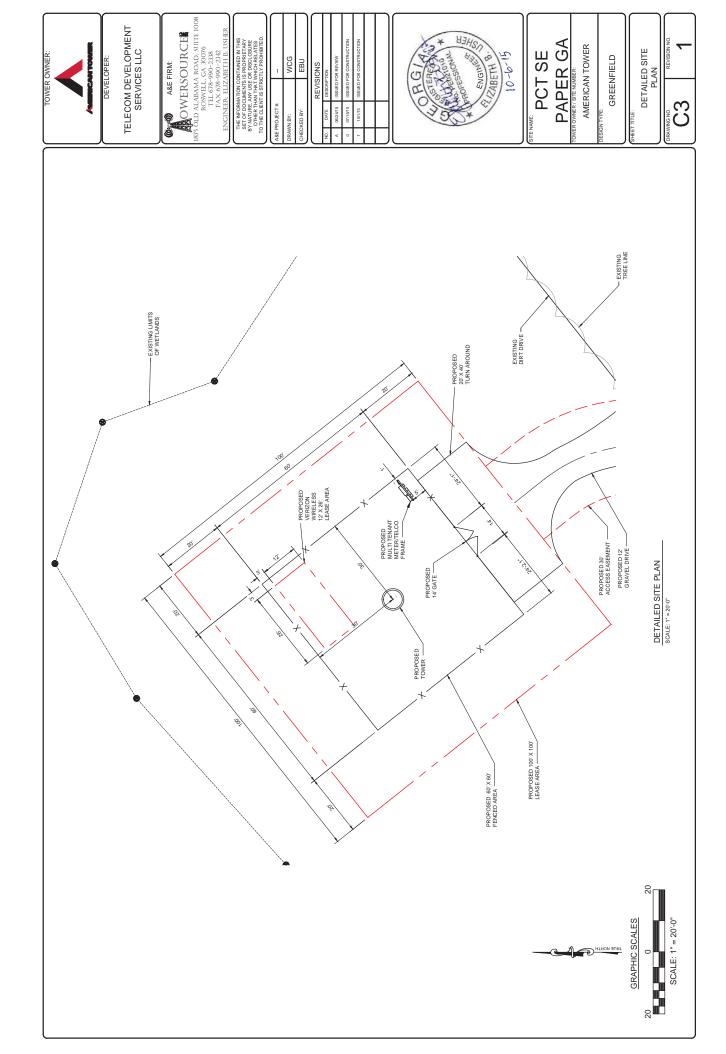
### PAPER GA PCT SE

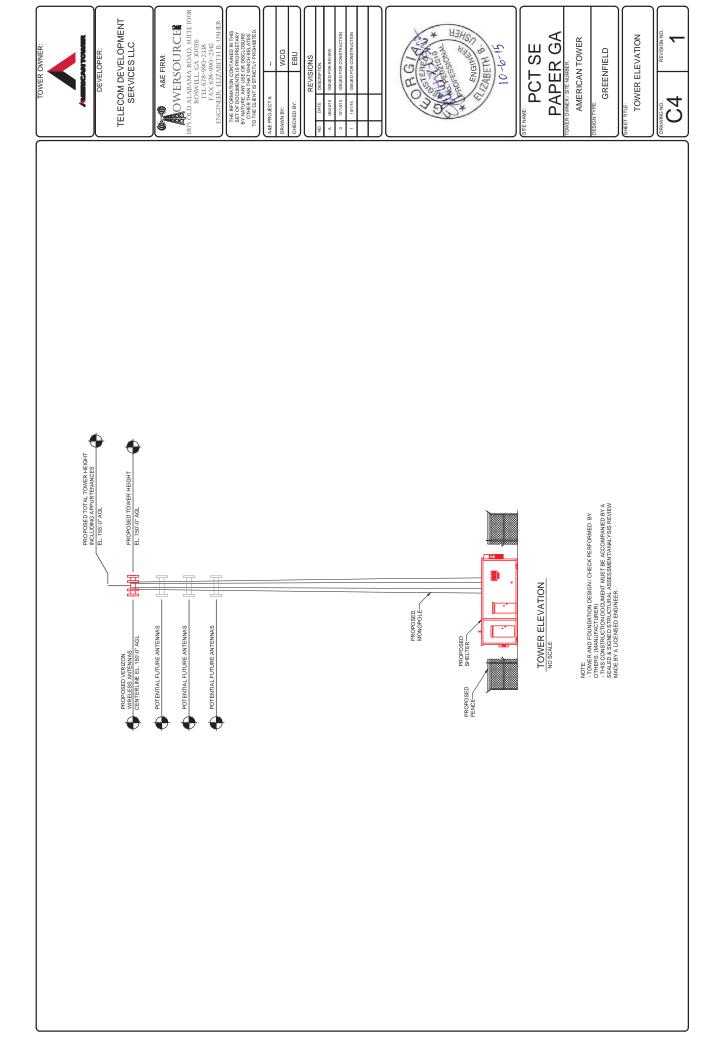
AMERICAN TOWER

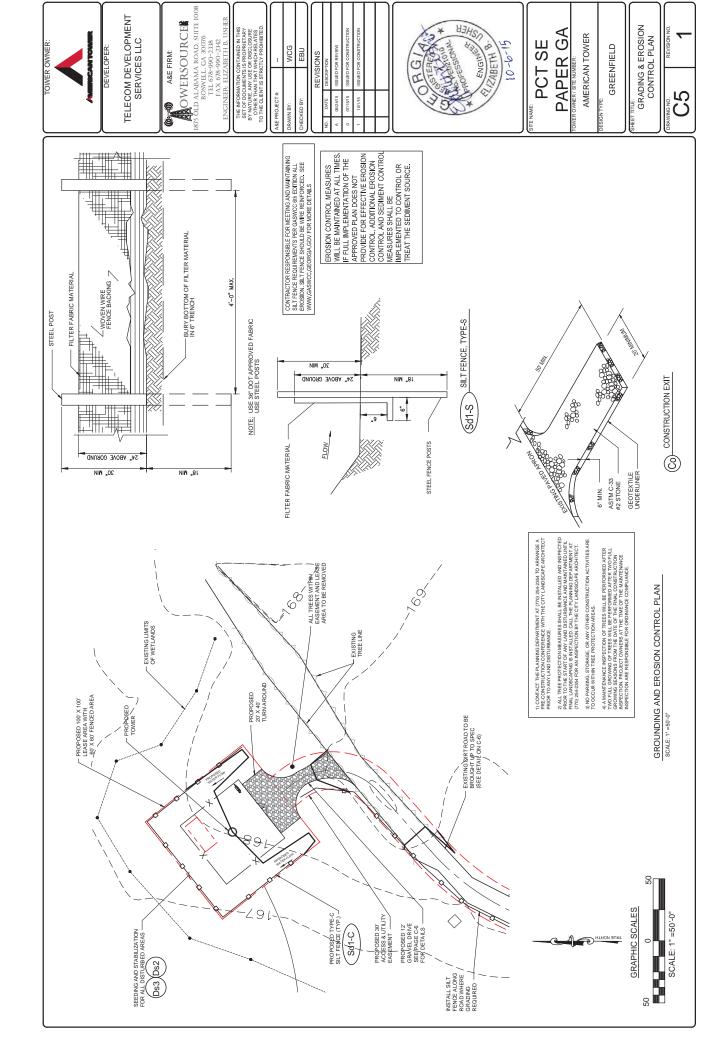
GREENFIELD

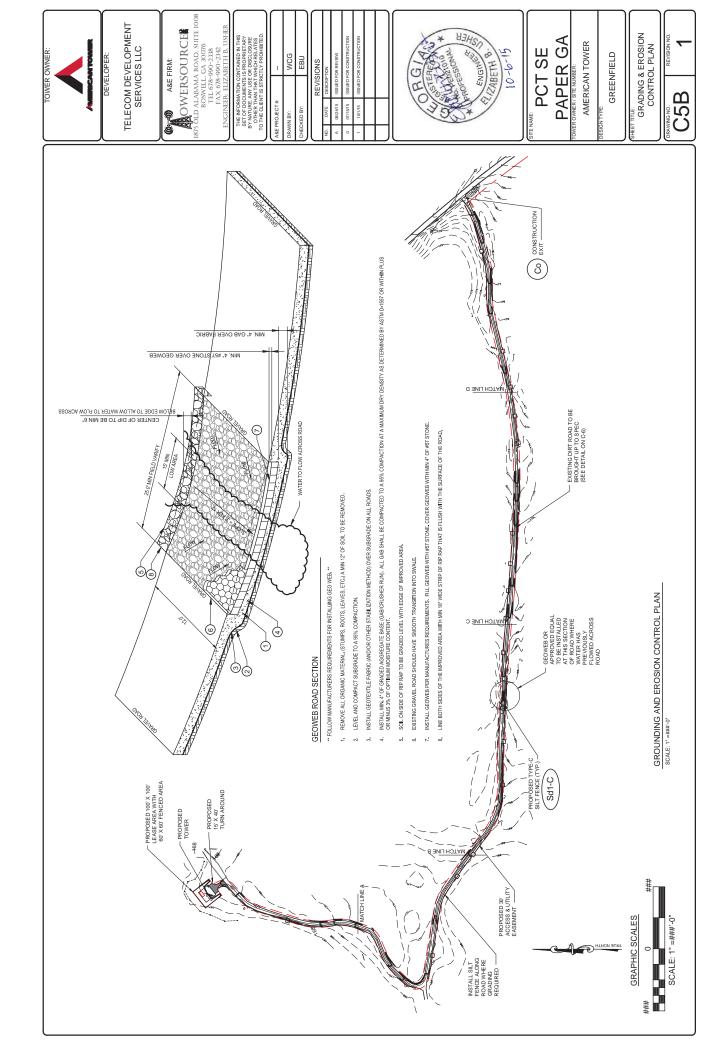
GENERAL NOTES

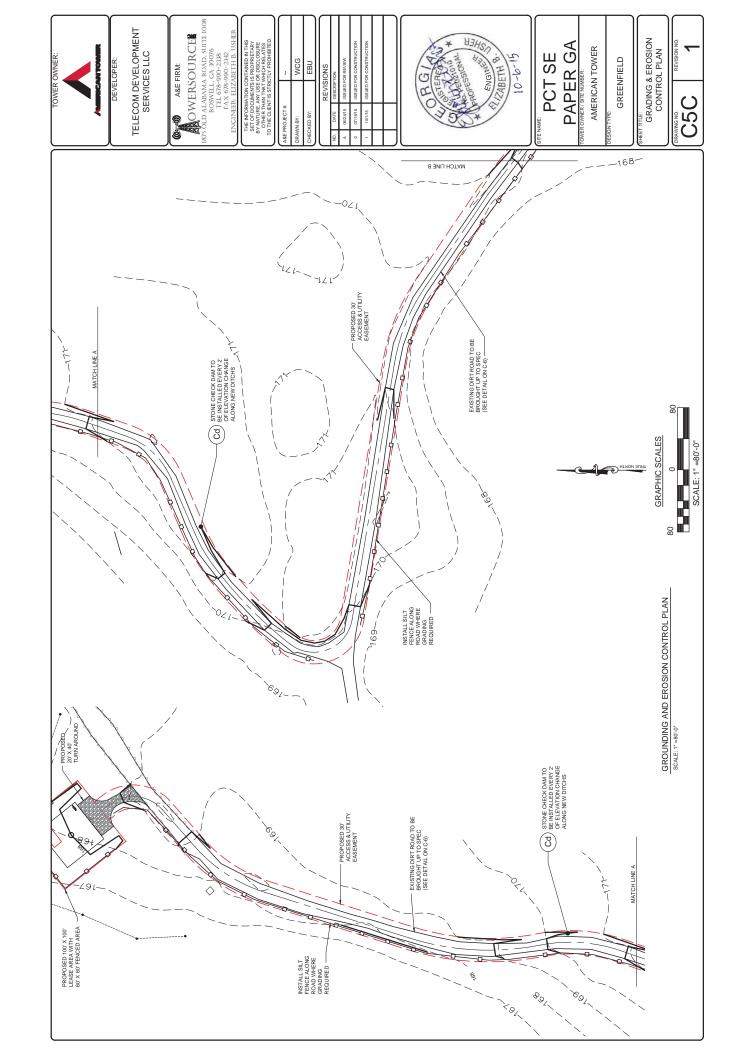


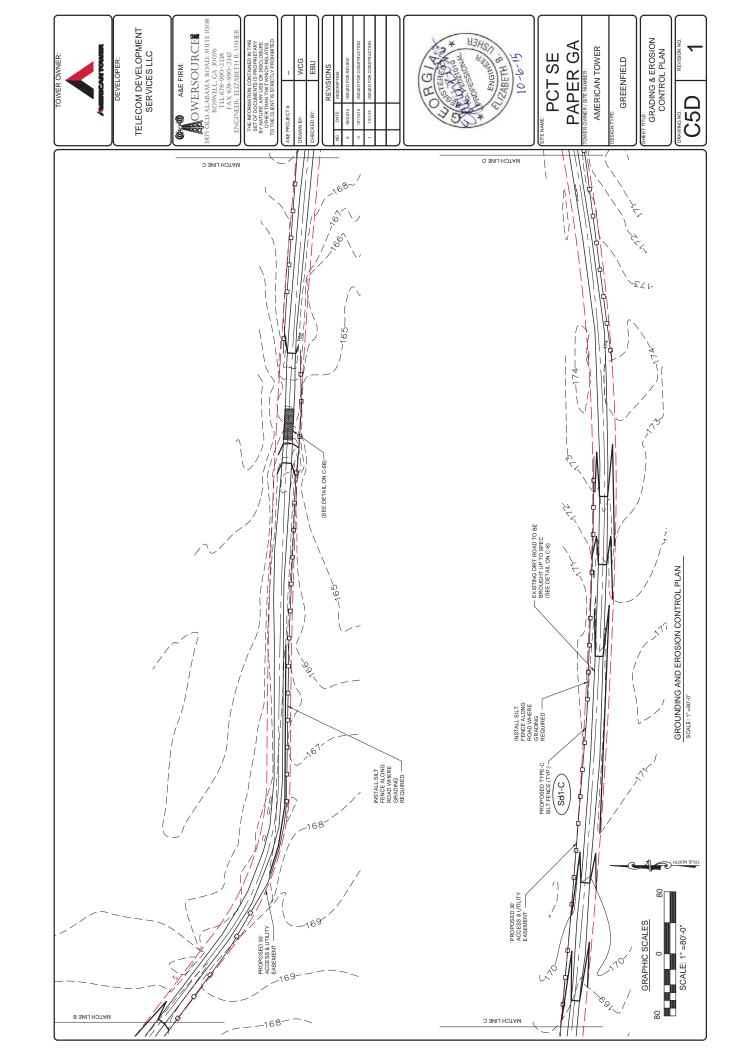


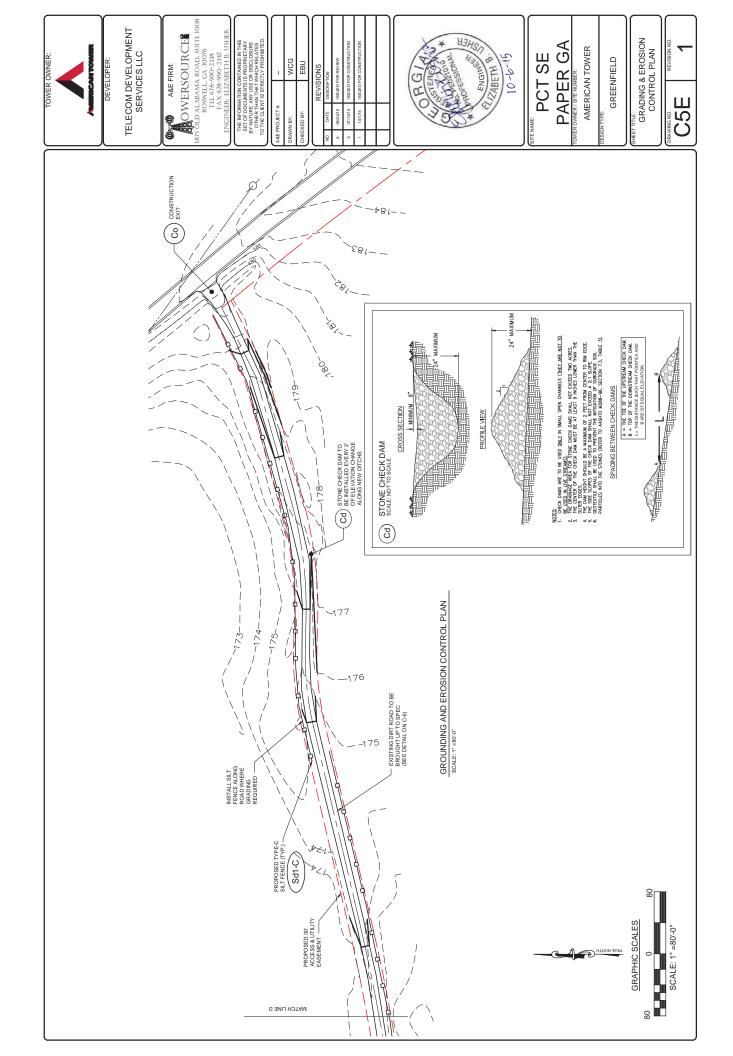


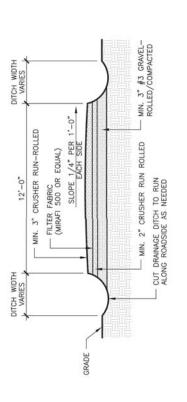






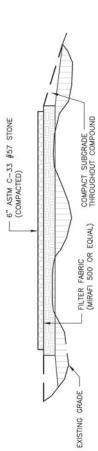






# ACCESS ROAD DETAIL

SCALE: N.T.S.



# COMPOUND DETAIL SCALE: N.T.S.



TELECOM DEVELOPMENT SERVICES LLC

A&E FIRM:

AWERSOURCE

DLD ALABAMA ROAD, SUITE 1008 ROSWELL, GA 30076

WCG EBU DRAWN BY: CHECKED BY:

	REVISIONS	DESCRIPTION	ISSUED FOR REVIEW	ISSUED FOR CONSTRUCTION	ISSUED FOR CONSTRUCTION	
		DATE	06/24/15	07/15/15	10/1/15	
۱		ġ.	۷.	0	+	



### PCT SE

PAPER GA AMERICAN TOWER

GREENFIELD

ROAD PROFILE DETAILS <u>S</u>

MAINTENANCE NOTES

Southeast Paper Maintenance Plan:

3 months after the construction completion a comprehensive follow-up visit and inspection will be required. Once the inspection occurs notification to the PE of the completion of the inspection is required. If any of the issues outlined below are identified as a concern then the PE is required to address mitigation of issues.

- Inspect disturbed areas and inspect for compaction issues which after the contour as specified in the design.
- Re-apply DS3 (permanent seeding) to all disturbed areas where initial application was not successful or signs of de-stabilization 2 Re appear
- Inspect road to verify that there is no erosion within the road, insure gravel on road has not eroded or become displaced. If gravel has eroded or become displaced identify if it has created issues with any of the ditches, inlets or other improvements.

Once the inspection is completed provide notice to the PE that the inspection is complete and provide details (if any) where issues have been identified or if there are any on site condition or variances to the site design. If any of the issues outlined below are identified as a concern then notification of the PE is required to address mitigation of issues.

After initial inspection and in subsequent intervals not to exceed 6 months\* a follow up visit will be required.

- Inspect road to verify that there is no erosion or displacement within the road.
- Apply DS3 (permanent seeding) to all disturbed areas not otherwise stabilized.
- Inspect for encroachment of vegetation to the improvements and eliminate potential impact due to shedding of foliage or root Inspect displacement.
- \* With regard to the timing of the follow-up sits visits it is highly recommended one of the inspection be scheduled the first week of November. The site is surrounded by deciduous trees and blockages are at highest risk during the period just after the leaves drop.



# TELECOM DEVELOPMENT SERVICES LLC



A&E FIRM:

OWERSOURCE

LD ALABAMA ROAD, SUITE 1008 ROSWELL, GA 30076

-	WCG	EBU	
A&E PROJECT#:	DRAWN BY:	СНЕСКЕВ ВУ:	

		REVISIONS
NO.	DATE	DESCRIPTION
٧	06/24/15	ISSUED FOR REVIEW
0	07/15/15	ISSUED FOR CONSTRUCTION
-	10/1/15	ISSUED FOR CONSTRUCTION



### PAPER GA ROWNER/ SITE NUMBER B. PCT SE

AMERICAN TOWER

GREENFIELD

MAINTENANCE NOTES **C**7

# **EXCAVATION & GRADING NOTES:**

- ALL EXCAVATIONS ON WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIALLY HORIZOYTAL, ON UNDISTURBED AND UNFROZEN SOIL AND BE FREE FROM LOOSE MATERIAL AND EXCESS GROUNDWATER. DEWATERING FOR EXCESS GROUNDWATER. SHALL BE PROVIDED IF REGUMED.
- CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC MATERIAL. IF SOUND SOLIS NOT REACHED AT THE DESIGNATION DEPTH. THE BUSINISM SCHOOL ON 175 FULL DEPTH AND FITTHERE BUSINISM CORP SOLIS SHALL BE EXCANATIOD TO 175 FULL DEPTH AND FITTHERE BERDAGED WITH MECHANICALLY COMPACTED GRANUL OR MATERIAL, OR THE EXCANATION BE FILLED WITH CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION.
- MAY EXCAMINO O'GE THE REQUIRED DEPTH SHALL BE FILLED WITH EITHER MECHANICALLY COMPACTED GRANULER MATERIAL OR CONGESTE OF THE SAME OLIALITY SECRETED FOR THE FOUNDATION, CAUSHED STONE MAY BE USED TO CAUSHALLET THE DETOT OF THE RECOVENTION, STONE, IF USED, SHALL NOT BE USED AS COMPILIANG CONCRETE THICKNESS.
- AFTER COMPLETION OF THE COUNDATION AND OTHER CONSTRUCTION BELOW GRADE, AND BEFORE BACKFILLING, ALL EXCAVATIONS SHALL BE CLEAN OF UNDUTRALE MATERIAL SUCH AS VEGETATION, TRASH, DEBRNS, AND SO FORTH.

BACKFILING SHALL:
-USE APPROVED MATERIALS CONSISTING OF EARTH, LOAM, SANDY CLAY, SAND

AND GRANGE, OR SOFT STONES OVER 2-12" MAXIMUM DIMENSIONS
BE FREE FROM CLODG OR STONES OVER 2-12" MAXIMUM DIMENSIONS
BE PLACED IN 6" LAVES AND COMIRACTED TO 95% STANDARD FROATOR
EXCEPT IN GRASSEDLIANDSCAPED AREAS, WHERE 90% STANDARD PROOTOR
IS REQUIRED.

PROTECT EXISTING GRAVEL SURFACING AND SUBGRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. LOS ELANKING OF ONTHE SULFALE MATERIALS SEGIENED TO PEREAD EQUIPMENT LOADS. REPARED MANGET OF EXISTING GRAVEL SURFACING OR SUBGRADE WHERE SUCH DAMAGE IS DUE TO THE COMPREACTORS OPERATIONS. DAMAGED GRAVEL. SURFACING SHALL BE RESTORED TO MATCH THE ADJACENT UNDAMAGED GRAVEL. SURFACING SHALL BE RESTORED TO MATCH THE ADJACENT UNDAMAGED GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS.

REPLACE ENSTING GRAVEL SURFACING ON AREAS FROM WHICH GRAVEL SURFACING IS REMOVED DURING CONSTRUCTION OPERATIONS. SCANALE, SURFACING SHALL BE REPLACED TO MATCH ENSTING ADJACENT GRAVEL SURFACING SHALL BE REPLACED SOFT SHALL BE REPLACED SOFT SHALL BE REPLACED SOFT SHALL BE REPLACED CONFORM TOWN SHALL BE REPLACED CONFORM TOWN SHALL BE REPLACED CONFORM TOWN SHALL BE REPLACED SHAPPEN AND RELEGED IF INLUSIOUS BRANCHING GRAVEL SURFACING MAY BE EXCANATED SPAPATELY AND RELEGED IF INLUSIOUS PRIOR TO SEE AREAL ALL ADDITIONAL GRAVEL RESURFACING MATERIAL AS RE REMOVED PROPER TO SURFACING AND THAT BY A CONFORM TO REQUIRE SURFACING SURFACING MATERIAL SHALL BE THOROUGHLY COMPOSED SURFACING SURFACING SURFACING MATERIAL SHALL BE THOROUGHLY APPROVED SELECTED INSTITEMAL GRAVEL SURFACING MATERIAL SHALL BE THOROUGHLY APPROVED SELECTED MATERIAL SHALL BE THE GRAVED TO CONFORM TO SHAPPING SELECTED MAY BE SURFACING MATERIAL BE THE GRAVED TO SURFACITE DITTING SHEAT THE MAY BE USED.

DAMAGE TO EXISTING STRUCTURES AND UTILITIES RESULTING FROM CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED / REPLACED TO OWNER'S SATISFACTION AT CONTRACTOR'S EXPENSE.

CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH PROPERTY OWNER SO AS TO AVOID INTERRUPTIONS TO PROPERTY OWNER'S OPERATIONS. 9

ENSURE POSITIVE DRAINAGE DURING AND AFTER COMPLETION OF CONSTRUCTION.

ALL CUT AND FILL SLOPES SHALL BE 2 HORIZONTAL TO 1 VERTICAL MAXIMUM.

REMOVE ALL ORGANICS, ROCKS GREATER THAN 3°, UNUSED FILL AND OTHER DEBRIS TO AN AREA OFF SITE IN A LEGAL MANNER.



DISTURBED AREA STABILIZATION

(DS1) WITH MULCHING ONLY)

INSECUE



DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)



DISTURBED AREA STABILIZATION)

(WITH PERMANENT VEGETATION)

NOSSOLE

ACTIVITY SCHEDULE	
WORK DESCRIPTION	WORKING DAYS
INSTALLATION OF EROSION CONTROL MEASURES	1-2
CLEARING, GRUBBING, AND GRADING	3-5
MAINTAINING EROSION CONTROL MEASURES	8-9
TEMPORARY GRASSING	9-12
BUILDING CONSTRUCTION	13-19
FINAL LANDSCAPING, GRASSING	20-23
DEALCOLORI CONTROLORIO	30 70

THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.

# GENERAL EROSION & SEDIMENT CONTROL NOTES:

- 1. DODITONAL EROSON CONTROL MAS SURSES, WILL BE
  EMPLOYED WHERE DE TERMINED NECESSARY BY ACTULAL SITE
  CONDITIONS.
  2. PRIOR TO COMMERCINE AND DISTURBANCE ACTUMY. THE
  LIMITS OF LAND DISTURBANCE ACTUMY. THE
  LIMITS OF LAND DISTURBANCE ACTUMY. THE
  ACCUBATELY DEMARCATED WITH STAKES, RIBBODIS, OR
  3. THE CONSTRUCTION OF THE SITE WILL MITH'THE WITH THE
  INSTALLATION OF THE SITE WILL MITH'THE WITH THE
  TO CONTROL SERONGEN CONTROL MES DISTRIBES SUFFICIENT.
  TO CONTROL SERONGEN CONTROL MES DISTRIBES SUFFICIENT.
- CONTRACTOR SHALL CALL APPROPRIATE COUNTY FOR AN INSPECTION OF SOLIC ROSIGNO CONTROL IMPASSURE SPROR IN SECTION OF SOLIC ROSIGNO CONTROL IMPASSURE SPROR TO BEGINNING GRADING ACTUVITY.

  ALL SEMEMET CONTROL WILL BEAMINIATION DATE A HAS BEEN COMPETED STREAM GROUND WITHIN THE CONSTRUCTION AREA HAS THE LOCATION OF SOME OF THE BEROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM HAT SHORING ON THE PLANS IF DEVINES OF THE BEROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWING ON THE PLANS IN THE PROPERT OF THE STREAM OF THE S
- MARION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES.

  S. ERCOSON CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES.

  REVOLDE THE MERCHANT CONTROL MEASURES SHALL BE IMPLEMENTED

  AND SEDMENT CONTROL MEASURES SHALL BE IMPLEMENTED

  CO CONTROL OF REFAIL THE SEDMENT SOURCE.

  S. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN

  THE SULT IS WITHIN IS. "OF THE OTO POTE THE SILT REVENTED

  7. FALLURE TO INSTALL, OPERATE OR MAINTAIN ALL ENCISION

  CONTROL MEASURES BY THE ALL CONTROL CONTROL ON

  BEING STOPPED ON THE JOB SITE UNIT, SUCH MEASURES ARE

  CORRECTED.

  8. SILT BARRIERS TO BE PLACED & TOOMNSTREAM TOE OF ALL

  6. SULT BARRIERS TO BE PLACED & TOOMNSTREAM TOE OF ALL

  10. TAND DELIS SHALL BE STABILZED WITH SEEDING.

SEEDING WITH MULCH (CONVENTIONAL SEEDING ON SLOPES LESS THAN 3:1) (HYDRAULIC SEEDING EQUIPMENT ON SLOPES 3:1 AND STEEPER)

4000 LBS./acre AGRICULTURAL LIMESTONE FERTILIZER. 5-10-15 MULCH STRAW OR HAY

SEED SPECIES	RATE/ACRE	DATES
HULLED COMMON BERMUDA GRASS	10lbs.	3/1 - 6/15
FESCUE	50lbs.	9/1 -10/31
FESCUE RYE GRASS	50lbs. 50lbs.	11/1 -2/28

6/15 -8/31 B. TOPDRESSING: APPLY WHEN PLANTS ARE 2 TO 4 INCHES TALL FERTILIZER (AMMONIUM NITRATE 33.5%) HAY MULCH FOR TEMPORARY COVER

800 lbs./acre C. SECOND-YEAR-FERTILIZER: (5-10-15 OR EQUIVALENT)

300 lbs./acre

HYCRALILIC SEEDING EQUINMENT AND FERTILIZING EQUIPMENT IS USED NO GRADING AND SHAPING OR WHEN HYDRALILIC SEEDING AND SHAPING OR SEED FIGHT SEED AND WOOD CELLULOGE FIGHT MECHANILE ENTER HYCRALIC SHAPING SHAP

GONGENTIONAL, SEEDING EQUIPMENT
GRADE, SHAPE AND SMOOTH WHERE NEEDED TO PROVIDE FOR SAFE EQUIPMENT OPERATION AT
GRADE, SHAPE AND SMOOTH WHERE NEEDED TO PROVIDE FOR SERLILEER IN IRFO FORM WILL
SEEDING TIME AND FOR MAINTENANCE PURPOSES. THE LINE AND FERTILLEER IN IRFO FORM WILL
BE SPREAD UNIFORMLY OVER THE AREA MINEDIATE REPORTS ESCENCE PRESENCE AND SERLILLEER PRESENCE AND SERLILLEER PRESENCE AND SERLILLEER PRESENCE AND SERLILLEER SERLILLEER PRESENCE AND SERLILLEER SERLI

11. COURTACTOR SHALL REMOVE ALL ERROND & AEDINANT CONFIDENCE MEASURES AFTER COMPLETION OF COORTINATOR OF THE COMPLETION OF COOSTINGTON OF COORTINATOR OF REDSON OF COORTINATOR OF REDSON OF COORTINATOR OF REDSON OF CONTROL MEASURES AND PRACTICES PRIOR TO GO CONCURRENT WITH I, AND DISTUBBING ACTIVITIES.

13. ALL SIDDES WILL HAVE SIT FREE STIRRAGED ROUGHENED AND VEGETATED WITHIN SEVEN (7) DAYS OF THEIR CONSTITUTION.

14. ALL SEDIMENT AND ERGOSON OUTTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WITHIN SEVEN (7) DAYS OWN LE CORRECTED BY THE BIOD OF SCHOLDES. DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE BIOD OF SCHOLDES. DADITORAL RESON AND SERVING THE ISSUING MEASURES WILL BE THE WAS THE ISSUING BY THE BIOD OF SCHOLDES.

AUTHORITY

16. THE WILY MATERIAL TO BE BURIED ON-SITE IS VEGETATIVE MATERIAL. CONSTRUCTION WASTE MAY
WETHER GENERALD WAS BURIED AND MUST BE TAKEN TO A STATE APPROVED LANDFILL.
17. ASS MIN UNDISTURBED VEGETATIVE BUFFER ADJACENT TO ALL RUNNING STREAMS AND CREEKS WILL
BE LEFT AND MANTANED.



### SERVICES LLC

TELECOM DEVELOPMENT

PLANNING

APPLICATION

LD ALABAMA ROAD, SUITE 1008 A&E FIRM:

OWERSOURCE

-	WCG
E PROJECT #:	AWN BY:

2000	EBU		REVISIONS	DESCRIPTION	ISSUED FOR REVIEW	ISSUED FOR CONSTRUCTION	ISSUED FOR CONSTRUCTION	
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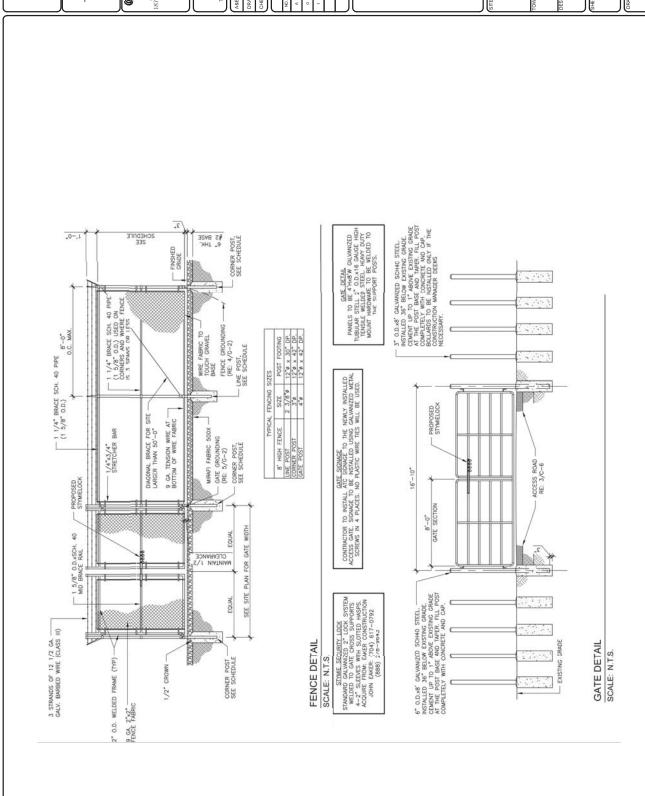
### PAPER GA PCT SE

AMERICAN TOWER

GREENFIELD

GRADING & SEDIMENT CONTROL NOTES

80





# TELECOM DEVELOPMENT SERVICES LLC

A&E FIRM:

OWERSOURCE

LD ALABAMA ROAD, SUITE 1008 ROSWELL, GA 30076

WCG

EBU

REVISIONS CHECKED BY: DRAWN BY:



PCT SE

PAPER GA

**AMERICAN TOWER** 

GREENFIELD

FENCE DETAILS

60



PROVIDE LABOR, EQUIPMENT, MATERIALS, ETC., REQUIRED TO COMPLETE THE INSTALLATION SHOWN 2. CODES AND STANDARDS:

INSTALLATION SHALL COMPLY WITH APPLICABLE LAWS AND ORDINANCES, UTILITY COMPANY REGULATIONS. 8. APPLICABLE REQUIREMENTS OF LATEST EDITIONS OF:

NFC - NATIONAL FIRE CODE

UL - UNDERWRITERS LIBORATORIES
NEC - NATIONAL ELECTRICAL CODE
NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
OSHA - OCCUPATIONAL SAFETY & HEALTH ACT
SEC - STANDARD BUILDING CODE

OBTAIN & PAY FOR REQUIRED PERMITS, LICENSES, FEES, INSPECTIONS, ETC..

COORDINATE WORK WITH OTHER TRADES . COORDINATION:

SUBMIT BROCHURES FOR APPROVAL ON DISCONNECT SWITCH & OTHER MAJOR SYSTEM COMPONENTS. : SUBMITTALS:

S. EXISTING SERVICES

DO NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER

. EQUIPMENT: CONNECT ELECTRICALLY OPERATED EQUIPMENT.

MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DOCUMENTS WHICH SHALL BE TURNED OVER TO THE OWNER UPON COMPLETION OF THE PROJECT RECORD DRAWINGS:

**ONE-LINE DIAGRAM** 

IDENTIFY DISCONNECT SWITCH WITH PERMANENT ENGRAVED NAMEPLATE. ). IDENTIFICATION:

GUARANTEE INSTALLATION TO BE FREE OF DEFECTS, SHORTS, GROUNDS, ETC., FOR A PERIOD OF ONE YEAR. FURNISH WARRANTY SO THE DEFECTIVE MATERIALS AND/OR WORKMANSHIP WILL BE REPAIRED/ GUARANTEE/WARRANTY:

REPLACED IMMEDIATELY UPON NOTIFICATION AT NO COST TO THE OWNER FOR PERIOD OF WARRANTY

11. CUTING & PATCHING: PROVIDE CUTTING REQUIRED TO DO THE WORK, DO NOT CUT STRUCTURAL ELEMENTS WITHOUT APPROVAL. PATCHING SHALL BE OF QUALITY EQUAL TO & OF MATCHING APPEARANCE OF EXISTING CONSTRUCTION.

PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES. TRENCHING & BACKFILL:

RACEWAYS:

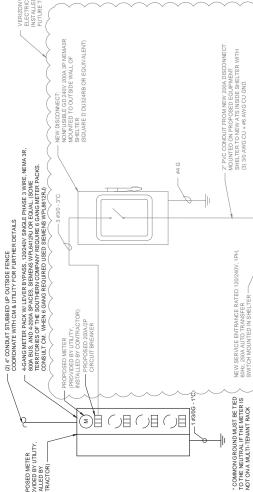
UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC CONDUIT (MEETING NEMA TC2-1990). UNDERGROUND
UNDERGROUND CONDUIT SHALL TRANSTRON TO RIGID GALVANIZED STELL CONDUIT BEFORE RISINA BADOVE GRADE OR WHEN
SUBJECTED TO VEHICLE TRAFFIC LOADS. ALL CONDUIT BENDS SHALL BE A MINIMALM OF 24' RADIUS. EXPOSED CONDUIT
SHALL BE RIGID GALVANIZED STEEL RAS CONDUIT, WHEN SPECIFIED. SHALL MEET UL-6 FOR
GALVANIZED STEEL ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. INTERIOR CONDUIT
SHALL BE ELECTROAL MET ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. INTERIOR CONDUIT
SHALL BE ELECTROAL MET ALLC TUBING WITH COMPRESSION TYPE FITTINGS.

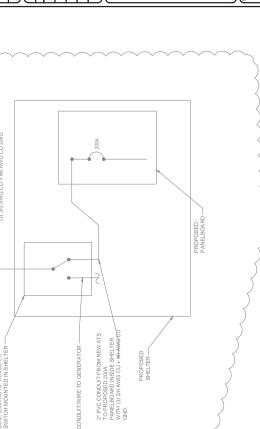
AS REQUIRED BY THE NEC.

15. CONDUCTORS:
USE 98% CONDUCTIVITY COPPER WITH TYPE THHN/THWN INSULATION, 600 VOLT, COLOR CODED. USE SOLID
CONDUCTORS FOR WIRE UP TO #8 AWG, USE STRANDED CONDUCTORS FOR WIRE #8 AWG AND ABOVE.

CONNECTORS FOR POWER CONDUCTORS: USE PRESSURE TYPE INSULATED TWIST CONNECTORS FOR #10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUSS FOR #8 AWG AND LARGER.

17. GROUNDING:
A ALL MRIFALLS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS & INSTRUCTIONS.
B. ALL CONNECTIONS SHALL BE 2. HOLE LUG UNLESS UNDERGROUND.
C. LUGS SHALL BE ATTACHED TO GROUND BARS USING STAINLESS STEEL OR HOT-DIPPED GALVANIZED STEEL BOLTS, NUTS. & LOCKWASHEND SHALL BE STING OF GROUNDING SYSTEM AS DIRECTED BY CONSTRUCTION MANAGER.
D. PROVIDE TESTING OF GROUNDING SYSTEM AS DIRECTED BY CONSTRUCTION MANAGER.









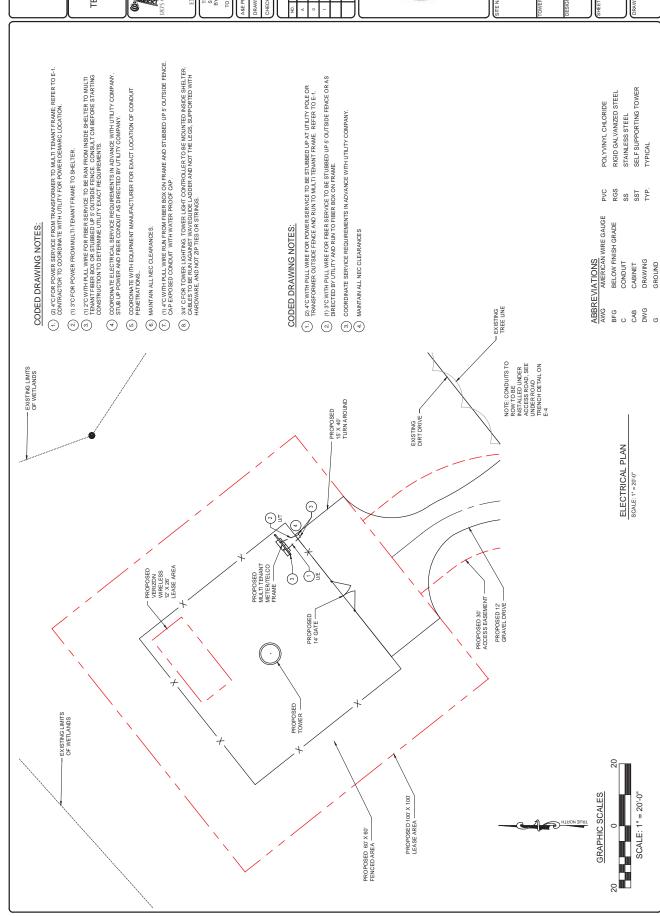
### PAPER GA PCT SE

AMERICAN TOWER

GREENFIELD

**ELECTRICAL NOTES &** ONE-LINE DIAGRAM

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# TELECOM DEVELOPMENT SERVICES LLC

A&E FIRM:

OWERSOURCE

NED ALABAMA ROAD, SUITE 1006 ROSWEL, GA 30076

BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE CLIENT IS STRICTLY PROHIBITED.
--

CTLY PROHIBITED.	-	
TO THE CLIENT IS STRICTLY PROHIBITED	A&E PROJECT#:	

### WCG EBU

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NO.	DATE	DESCRIPTION
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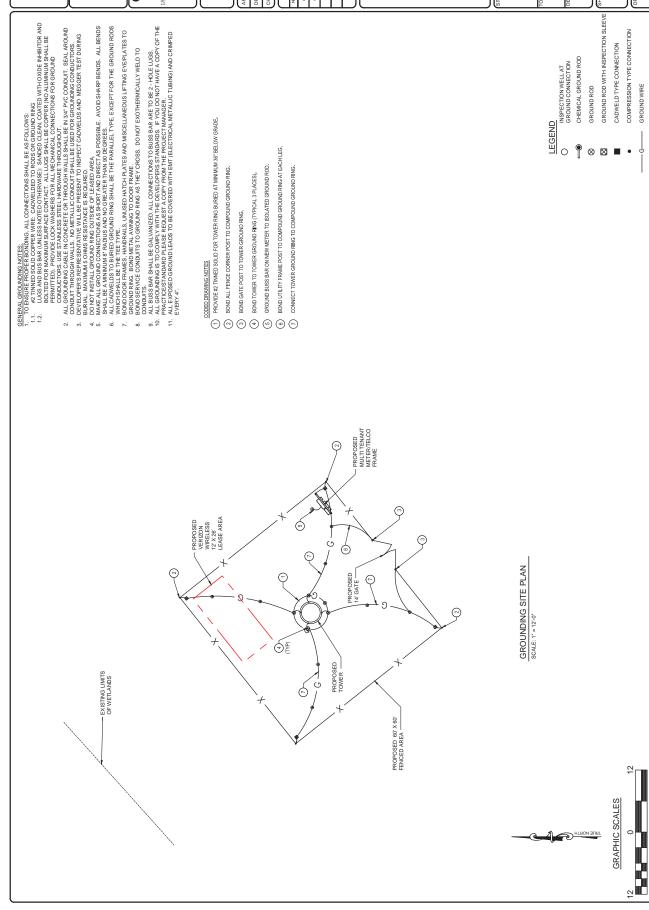


### PAPER GA PCT SE

AMERICAN TOWER

GREENFIELD

**ELECTRICAL PLAN** 



# TELECOM DEVELOPMENT SERVICES LLC



A&E FIRM:
OWERSOURCE

NED ALABAMA ROAD, SUITE 1008 ROSWEL, GA 30076

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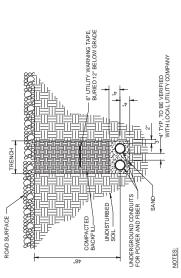
AMERICAN TOWER

GREENFIELD

**GROUNDING SITE** PLAN



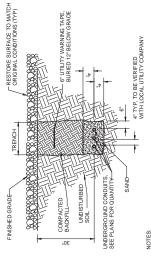
SCALE: 1" = 12'-0"



- 1. PROVIDE PVC CONDUIT BELOW GRADE EXCEPT AS NOTED BELOW
- 2. PROVIDE RGS CONDUIT & ELBOWS AT STUB UP LOCATIONS (ie POLES, EQUIPMENT, etc.)
- 3. PROVIDE RGS CONDUIT BELOW PARKING LOTS & ROADWAYS.

# UNDER ROAD TRENCH DETAIL

NOT TO SCALE



OLD ALABAMA ROAD, SUITE 1008 ROSWELL, GA 30076

CADWELD (TYP.)

WCG

EBU REVISIONS

CHECKED BY: DRAWN BY:

> FENCE GROUNDING NOT TO SCALE

GROUND RING #2 AWG BCW

CABLE TO CABLE CADWELD (TYP.)—

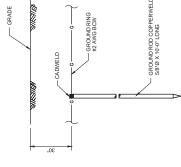
A&E FIRM:
OWERSOURCE

TELECOM DEVELOPMENT SERVICES LLC

- 1. PROVIDE PVC CONDUIT BELOW GRADE EXCEPT AS NOTED BELOW
- 2. PROVIDE RGS CONDUIT & ELBOWS AT STUB UP LOCATIONS (ie POLES, EQUIPMENT, etc.>)
- 3. PROVIDE RGS CONDUIT BELOW PARKING LOTS & ROADWAYS.

## TYPICAL TRENCH DETAIL





- FINISHED GRADE #2 AWG BARE TINNED SOLID COPPER WIRE TEST LOOP

REMOVABLE COVER

1" WIDE SLOT CUT SMOOTH FOR GROUND RING, EXTEND NOTCH 2" ABOVE CONDUCTOR

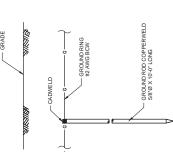
- GROUND RING #2 AWG BCW

4" OF LOOSE GRAVEL—

8" DIAMETER SCHEDULE 40 PVC-

GROUND ROD

-CADWELD



ENGINEER

68G1

RICHETH 8.

9-9-01

### PAPER GA PCT SE

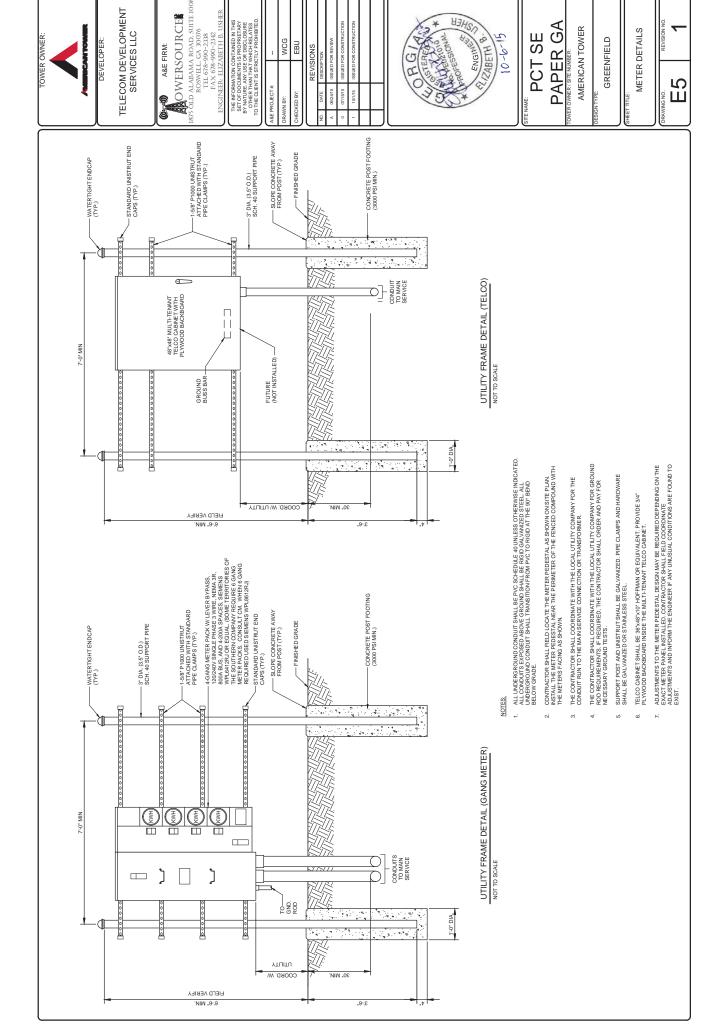
AMERICAN TOWER

GREENFIELD

GROUND ROD DETAIL NOT TO SCALE

GROUND ROD INSPECTION WELL NOT TO SCALE

GROUNDING DETAILS **E**4



### Appendix 2.

Threatened & Endangered Species Documentation (IBA)



July 17, 2015

TOWER ENGINEERING PROFESSIONALS, INC.

326 Tryon Road Raleigh, NC, 27603

Office: (919) 661-6351 Fax: (919) 661-6350

American Towers LLC 10 Presidential Way Woburn, MA 01801

Re: 201440

PCT SE Paper GA

S Hwy 199 Dublin, GA 31027

Consultant Project No. 61793

Tower Engineering Professionals, Inc. has been contracted by American Towers, LLC to provide environmental services for a proposed telecomunications tower for the purpose of completing an FCC NEPA review in accordance with 47 CFR 1.1.307. The purpose of this Informal Biological Assessment is to identify if any federal or state listed species and/or critical habitat will be affected by the proposed project and to determine if the proposed project will have any potential impacts to wetlands and migratory birds.

In accordance with 47 CFR 2.2308 (a) 3, TEP personnel reviewed the most current species lists for the county, database files, surveys, and maps maintained by the USFWS and state natural resource agencies, to identify what endangered, threatened, and proposed species, and designated and proposed critical habitats, may be in the action area (50 CFR 402.02).

### **Project Description:**

The proposed telecommunications tower compound lease area and the proposed ingress-egress & utility easement will be located west of a portion of S Hwy 199, north of a portion of Interstate 16, and southeast of the City of Dublin, Laurens County, GA (See Appendix - Site Map). The proposed tower compound lease area, associated buffer, and the proposed ingress-egress & utility easement will be located on the northwestern portion of an approximately 3,303.36-acre parcel identified as Parcel: 203 064 by the Laurens County, GA Tax Assessors Office. Access to the site will be provided by a proposed 30-ft wide ingress-egress & utility easement, which will proceed west from a portion of S Hwy 199, along an existing earthen/gravel access drive for approximately 0.75-miles before turning northeast and continuing approximately 0.203-miles along a portion of an existing two-track and earthen access drive, and continuing approximately 35-ft through a portion of an undeveloped forested area until reaching the proposed 100-ft x 100-ft American Towers LLC compound lease area. The proposed action area consists of the aforementioned tower compound lease area and proposed ingress-egress & utility easement, along with an additional 30-ft buffer surrounding the proposed tower compound lease area. However, per correspondence with ATC, no improvements or disturbances assoicated with the proposed ingress-egress & utility easement will be located outside of the existing approximately 12-ft wide earthen/gravel access drive and the existing earthen and two-track access drive.

### **Project Location:**

The proposed action area will be located west of a portion of S Hwy 199, north of a portion of Interstate 16, and southeast of a portion of the City of Dublin, within Laurens County, Georgia. The proposed action area is located within the northwestern portion of an approximately 3,303.36-acre parcel primarily occupied by forested/silvicultural land uses. The property is located in a portion of Laurens County where the surrounding land uses are primarily occupied by forested/silvicultural, low density residential, fallow, and industrial land uses associated with a paper mill.

At the time of inspection the proposed action area consisted of a portion of an existing earthen/gravel access drive, a portion of an existing earthen and two-track access drive, and a portion of a forested area occupied by early successional vegetation. The proposed tower compound lease area was primarily occupied by prickly Florida blackberry (*Rubus argutus*), muscadine (*Vitis rotundifolia*), common greenbrier (*Smilax rotundifolia*), sweetgum (*Liquidambar styraciflua*), dog fennel (*Eupatorium capillifolium*), pond pine (*Pinus serotina*) with sparse occurrences of water oak (*Quercus nigra*), black walnut (*Juglans nigra*), American beautyberry (*Callicarpa Americana*), and swamp cyrilla (*Cyrilla racemiflora*). The 30-ft northern, eastern, and western tower compound lease area buffer was primarily occupied by prickly Florida blackberry (Rubus argutus), common greenbrier (*Smilax rotundifolia*), sweetgum (*Liquidambar styraciflua*), dog fennel (*Eupatorium capillifolium*), muscadine (*Vitis rotundifolia*), and pond pine (*Pinus serotina*) and sparse occurrences of American beautyberry (*Callicarpa Americana*) and swamp cyrillia (*Cyrilla racemiflora*). The southern 30-ft buffer was primarily occupied by dog fennel (*Eupatorium capillifolium*), muscadine (*Vitis rotundifolia*), common greenbrier (*Smilax rotundifolia*), and prickly Florida blackberry (*Rubus argutus*), fescue (*Festuca*), and a portion of the existing two-track access drive and proposed ingress-egress & utility easement.

### Wetland Discussion:

According to an informal wetland delineation and site survey provided by ATC, wetlands are located throughout the parent property; however the proposed tower compound lease area and existing access drives were not identified as being located within the identified wetlands on the property. According to the aforementioned wetland delineation and site survey, portions of the northern, northwestern, and northeastern 30-ft buffer areas appear to be located within a portion of a wetland. Additionally portions of the 30-ft wide ingress-egress & utility easement appear to be located within portions of wetlands located on the property; however per correspondence with ATC, no improvements or disturbances associated with the proposed action will occur outside of the existing earthen/gravel access drive and the existing earthen and two-track drive.

At the time of inspection, no surface water, water-stained leaves, water marks, saturation of any additional wetland hydrology indicators were observed within the proposed tower compound lease area or 30-ft buffer areas. TEP personnel utilized the USFWS National Wetlands Inventory (NWI) mapper to determine if any wetlands were identified as being located on or within the immediate vicinity of the proposed action area. According to the NWI map, the northern and northwestern portions of the tower compound lease area are identified as being located within a freshwater forested/shrub wetland. Additionally, a portion of the existing earthen/gravel access drive is identified as being located within a portion of a freshwater forested/shrub wetland. Further, the Laurens County GIS indicates that a "blue line" stream flows south-southwesterly through the parent property from a portion of S Hwy 199 and through a portion of the existing earthen/gravel access drive and proposed ingress-egress & utility easement. A wetland (swamp) was observed immediately adjacent to the northern and southern portions of the existing earthen/gravel access drive and within the proposed 30-ft wide ingress-egress & utility easement. At the time of inspection, an approximately 12-ft wide x 6-ft long area of surface water connecting the northern and southern portions of the aforementioned wetland was observed within the existing earthen/gravel access drive and the proposed ingress-egress & utility easement, located approximately 0.45-miles west of a portion of S Hwy 199.

According to the Web Soil Survey of Laurens County, the soils within the subject property are identified as Clarendon loamy sand, 0 to 2 % slopes (CnA), Fuquay loamy sand, 0 to 5 % slopes (FuB), Herod and Muckalee sandy loams, frequently flooded (HM), Ocilla loamy sand, 0 to 2 % slopes (Od), Rains sandy loam (Ra), and Dothan loamy sand, 2 to 5 % slopes (DoB). Herod and Muckalee sandy loams and Claredon loamy sand are identified as being located within a portion of the proposed tower compound lease area and a portion of the ingress-egress & utility easement. Fuquay loamy sand, Ocilla loamy sand, Rains sandy loam, and Dothan loamy sand are identified as being located within the proposed ingress-egress & utility easement. According to the USDA National Hydric Soils List (Updated March 2014), Herod and Muckalee sandy loams, Clarendon loamy sand, Ocilla loamy sand, and Rains sand are identified as hydric soils in Laurens County, GA; Fuquay loamy sand and Dothan loamy sand are not identified as hydric soils within Laurens County, GA.

According to the the Atlantic and Gulf Coastal Plain 2014 Regional Wetland Plant List, completed by the US Army Corps of Engineers (ACOE), the vegetation within the proposed action area is identified as having a facultative and facultative wetland indicator status. According to the US ACOE Wetlands Delineation Manual published in 1987, Facultative vegetation is described as plants with a similar likelihood (estimated probability 33% to 67%) of occurring in both wetlands and non-wetlands. Facultative wetland vegetation is described as plants that usually occurs in wetlands (estimated probability 67% to 99%), but occasionally found in non-wetlands.

According to the informal wetland delineation and site survey which were provided by ATC, the proposed tower compound lease area is not located within a wetland; however portions of the northwestern, northern, and northeastern 30-ft tower compound buffer areas appear to be located within a portion of the delineated wetland and portions of the proposed 30-ft wide ingress-egress & utility easement appear to be located within portions of wetlands on the property. However, surface water connecting the northern and southern portions of what appears to be jurisdictional waters of the U.S. on the property was observed within a portion of the existing earthen/gravel access drive and a portion of the proposed ingress-egress and utility easement. If any improvements (gravel fill, culverts, etc.) to the aforementioned portion of the existing access drive and proposed ingress-egress & utility easement are necessary for the proposed action, it is the opinion of TEP that a jurisdictional determination and Nationwide Permit be obtained from the U.S. Army Corps of Engineers prior to any improvements associated with the proposed action.

### Threatened and Endangered Species Discussion:

Review of the USFWS Information, Planning, and Conservation System (IPAC) preliminary species list for Laurens County, GA indicated the possible presence of two (2) federally listed terrestrial threatened or endangered species: red-cockaded woodpecker (*Picoides borealis*) and the Eastern indigo snake (*Drymarchon corais couperi*). Additionally the aforementioned preliminary species list indicated the possible presence of one (1) candidate species: gopher tortoise (*Gopherus polyphemus*).

Review of the Georgia Department of Natural Resources Wildlife Resources Division (Georgia DNRWRD), results for the USGS 7.5-Minute Minter, GA Northwest Topographic Quadrangle, indicated the possible presence of two (2) protected terrestrial species: Rafinesque's big-eared bat (*Corynorhinus rafinesquii*) and the swamp buckhorn (*Sideroxylon thornei*).

The site inspection performed on July 8, 2015 consisted of a pedestrian inspection of the proposed action area and the immediate vicinity for indications of the presence of federally listed species and/or their critical habitats and preferred/suitable habitats, as described by the USFWS and the Georgia DNRWRD. Additionally, due to the nature of the project and the distance from the nearest river (greater than 1-mile), the proposed action area is not anticipated to have the potential to affect any of the federal or state listed aquatic species in Laurens County, GA (Atlantic sturgeon (*Acipenser oxyrinchus* oxyrinchus)). Further, according to the USFWS Critical Habitat Portal, there are no officially designated critical habitats located on, or in the vicinity of the proposed action area.

Red-cockaded woodpecker (Picoides borealis): The red-cockaded woodpecker is listed as a federal endangered species in Laurens County, GA. According to the information obtained from the USFWS, the woodpecker prefers to nest in mature pine stands with low understory vegetation and prefers to forage in mixed pine and hardwood stands greater than 30 years of age and consisting of trees with an average diameter greater than 10-inches dbh. At the time of inspection the proposed action area consisted of a portion of an earthen/gravel access drive, a portion of an earthen and two-track access drive, and a portion of a forested area primarily occupied by early successional vegetation consisting of prickly Florida blackberry (Rubus argutus), muscadine (Vitis rotundifolia), common greenbrier (Smilax rotundifolia), sweetgum (Liquidambar styraciflua), dog fennel (Eupatorium capillifolium), pond pine (Pinus serotina) with sparse occurrences of water oak (Quercus nigra), black walnut (Juglans nigra), American beautyberry (Callicarpa Americana), and swamp cyrilla (Cyrilla racemiflora). The 30-ft northern, eastern, and western tower compound lease area buffer was primarily occupied by prickly Florida blackberry (Rubus argutus), common greenbrier (Smilax rotundifolia), sweetgum (Liquidambar styraciflua), dog fennel (Eupatorium capillifolium), muscadine (Vitis rotundifolia), and pond pine (Pinus serotina) and sparse occurrences of American beautyberry (Callicarpa Americana) and swamp cyrillia (Cyrilla racemiflora). The southern 30-ft buffer was primarily occupied by dog fennel (Eupatorium capillifolium), muscadine (Vitis rotundifolia), common greenbrier (Smilax rotundifolia), and prickly Florida blackberry (Rubus argutus), fescue (Festuca), and a portion of the existing two-track access drive and proposed ingress-egress & utility easement. The aforementioned pine and hardwood trees observed within the proposed action area were less than 6-inches dbh, therefore it is the opinion of TEP personnel that no potentially suitable nesting or foraging habitat for the red-cockaded woodpecker exists within the limits of the proposed action area. Additionally, no occurrences of the red-cockaded woodpecker were observed at the time of inspection. Further, the proposed action area is relatively small and utilizes an existing earthen/gravel access road and an existing two-track access drive. Therefore, due to the absence of potentially suitable habitat, lack of occurrences, and the minimal extent of disturbance associated with the proposed action it is the opinion of TEP that the proposed action will have no **effect** on the red-cockaded woodpecker (*Picoides borealis*).

Eastern indigo snake (*Drymarchon corais couperi*): The Eastern indigo snake is listed as a federal threatened species in Laurens County, GA. According to the information obtained from the USFWS Eastern indigo snakes are restricted to areas of xeric pine-oak sandhills that are inhabited by gopher tortoises. In Georgia the indigo snake is typically found in longleaf pine habitats. The indigo snake depends on the burrows of gopher tortoises for nesting. At the time of inspection the proposed action area consisted of a portion of an earthen/gravel access drive, a portion of an earthen and two-track access drive, and a portion of a forested area primarily occupied by early successional vegetation. No longleaf pine habitats or occurrences of gopher tortoise burrows were observed at the time of inspection. Additionally, the proposed action area is relatively small and utilizes an existing earthen/gravel access drive and an existing two-track access drive. Therefore, based on the lack of preferred/suitable habitat, lack of occurrences, existing human disturbances, and the minimal size and scale of the proposed action, it is the opinion of TEP personnel that the proposed action will have **no effect** on the Eastern indigo snake (*Drymarchon corais couperi*).

Gopher tortoise (Gopherus polyphemus): The gopher tortoise is listed as a federal candidate species in Laurens County, GA. According to the information obtained from the USFWS, the gopher tortoise inhabits areas occupied by sandy soils, with herbaceous vegetation, and ample sunlight which are often are found within longleaf pine habitats that have periodic controlled burns to reduce hardwood trees and promote grasses and forbs. At the time of inspection the proposed action area consisted of a portion of an earthen/gravel access drive, a portion of an earthen and two-track access drive, and a portion of a forested area primarily occupied by early successional vegetation. No longleaf pine habitats or no occurrences of the gopher tortoise or burrows were observed within the proposed action area. Additionally, the proposed action area is relatively small and utilizes an existing earthen/gravel access drive and an existing two-track access drive. Therefore, based on the lack of preferred/suitable habitat, lack of occurrences, existing human disturbances, and the minimal size and scale of the proposed action, it is the opinion of TEP personnel that the proposed action will have **no effect** on the gopher tortoise (Gopherus polyphemus).

Rafinesque's big-eared bat (Corynorhinus rafinesquii): The Rafinesque's big-eared bat is listed as a rare species in Laurens County, GA. According to information obtained from the Georgia DNR website, the bat is a colonial cavity roosting bat with dark brown fur on its back and dark rooted white hairs on its underside and has large ears (approximately 1 to 1.5-inches). The bats roost in dilapidated structures or areas of mature forest, including bottomland and upland hardwoods and pine flatwoods near water. Large hollow cypress and gum trees with openings near the base appear to be favored within coastal plain bottomland areas. The proposed action area consisted of a portion of an earthen/gravel access drive, a portion of an earthen and two-track access drive, and a portion of a forested area primarily occupied by early successional vegetation. A swamp was observed north of a portion of the existing earthen/gravel access drive; however the proposed action is relatively small and utilizes the existing access drive. Further, no occurrences were observed at the time of inspection. Therefore, based on the lack of preferred/suitable habitat, existing human disturbances, lack of occurrences, and the minimal size and scale of the proposed action, it is the opinion of TEP personnel that the proposed action will have **no effect** on Rafinesque's big-eared bat (Corynorhinus rafinesquii).

Swamp buckhorn (Sideroxylon thornei): The swamp buckhorn is listed as a rare species in Laurens County, GA. According to the information obtained from the Georgia DNR website, the swamp buckhorn is a shrub that grows approximately 8-ft tall with rounded or bluntly pointed leaves, with small white flowers (August-early October), and round black fruit (May-June). The buckhorn is found within forested limesink depressions and swamps over limestone. The proposed action area consisted of a portion of an earthen/gravel access drive, a portion of an earthen and two-track access drive, and a portion of a forested area primarily occupied by early successional vegetation. A swamp was observed north of a portion of the existing earthen/gravel access drive; however the proposed action is relatively small and utilizes the existing access drive. According to the USGS Geologic Map of Georgia, proposed action area and surrounding areas are comprised of the Neogene undifferentiated formation which consists of sandstone and claystone. Further, no occurrences of the swamp buckhorn were observed at the time of inspection. Therefore, based on the absence of preferred/suitable habitat, existing human disturbances, lack of occurrences, and the minimal size and scale of the proposed action, it is the opinion of TEP personnel that the proposed action will have no effect on the swamp buckhorn (Sideroxylon thornei).

### **Migratory Bird Discussion:**

In conforming to the United States Fish & Wildlife Service's "Service Interim Guidelines For Recommendations On Communications Tower Siting, Construction, Operation, and Decommissioning," the proposed telecommunications tower is anticipated to be monopole in design, less than 175-ft AGL, and unlit thereby minimizing impacts to migratory birds. In addition, the proposed tower compound lease area and

associated 30-ft buffer area and the proposed ingress-egress & utility easement for this project are not located within 300-ft of a wildlife refuge, national wilderness area, native grassland, ridge-line, mountain top, coastline or area commonly known to have high incidences of fog or low clouds, where migratory birds may be found. During the site investigation, no nests were observed within the project site or immediate surrounding area. Therefore, it is expected that there will be no potential for significant impacts to migratory birds based upon the specifications of this project.

### Conclusions:

It is the opinion of TEP personnel, that the proposed action will have no effect on the red-cockaded woodpecker (*Picoides borealis*), Eastern indigo snake (*Drymarchon corais couperi*), gopher tortoise (*Gopherus polyphemus*), Rafinesque's big-eared bat (*Corynorhinus rafinesquii*), and the swamp buckhorn (*Sideroxylon thornei*). Additionally due to the nature of the project, the proposed action is not anticipated to have the potential to affect any federal or state listed aquatic species in Laurens County, GA (Atlantic sturgeon (*Acipenser oxyrinchus* oxyrinchus)).

However, a surface water feature which appears to serve as a surface water hydrologic connection between two adjacent waters of the U.S. was observed within a portion of the existing earthen/gravel access drive and proposed ingress-egress & utility easement. Due to the nature of the aforementioned surface water feature, TEP recommends that a jurisdictional determination and Nationwide Permit be obtained from the U.S. Army Corps of Engineers prior to any improvements (gravel fill, ect.) to the existing access drive.

Sarah-Beth Miller

Environmental Project Manager

George T. Swearingen

Environmental Division Manager

### Table 1 - Species List

### ATC Action Area Habitat:

At the time of inspection the proposed action area consisted of a portion of an existing earthen/gravel access drive, a portion of an existing two-track access drive, and a portion of a forested area occupied by early successional vegetation. The proposed tower compound lease area was primarily occupied by prickly Florida blackberry (*Rubus argutus*), muscadine (*Vitis rotundifolia*), common greenbrier (*Smilax rotundifolia*), sweetgum (*Liquidambar styraciflua*), dog fennel (*Eupatorium capillifolium*), pond pine (*Pinus serotina*) with sparse occurrences of water oak (*Quercus nigra*), black walnut (*Juglans nigra*), American beautyberry (*Callicarpa Americana*), and swamp cyrilla (*Cyrilla racemiflora*). The 30-ft northern, eastern, and western tower compound lease area buffer was primarily occupied by prickly Florida blackberry (*Rubus argutus*), common greenbrier (*Smilax rotundifolia*), sweetgum (*Liquidambar styraciflua*), dog fennel (*Eupatorium capillifolium*), muscadine (*Vitis rotundifolia*), and pond pine (*Pinus serotina*) and sparse occurrences of American beautyberry (*Callicarpa Americana*) and swamp cyrillia (*Cyrilla racemiflora*). The southern 30-ft buffer was primarily occupied by dog fennel (*Eupatorium capillifolium*), muscadine (*Vitis rotundifolia*), common greenbrier (*Smilax rotundifolia*), and prickly Florida blackberry (*Rubus argutus*), fescue (*Festuca*), and a portion of the existing two-track access drive and proposed ingress-egress & utility easement.

	Species Assessment								
Species Name	Federal Species Status	State Species Status	Species Habitat Requirement	Species Effect	Rationale				
Red-cockaded woodpecker (Picoides borealis)	Federal Endangered		Requires mixed pine and hardwood stands greater than 30 years of age and consisting of trees with an average diameter greater than 10-inches dbh for foraging and longleaf pines greater than 95 years of age or loblolly pines greater than	1 - No Effect	Required habitat not present.				
Eastern indigo snake (Drymarchon corais couperi)	Federal Threatened		75 years of age for cavity trees.  Requires xeric pine-oak areas in sandhills or longleaf pine forests that are inhabited by gopher tortoises. Requires gopher tortoise burrows for nesting.	1 - No Effect	Lack of preferred/suitable habitat, existing human disturbances, and minimal extent of disturbance.				
Gopher tortoise (Gopherus polyphemus)	Proposed Federal		Requires sandy soils and herbaceous vegetation with ample sunlight such as longleaf pine habitats with periodic controlled burns to reduce hardwoods and promote grasses and forbs.	1 - No Effect	Lack of preferred/suitable habitat, lack of occurrences, human disturbances, and minimal extent of disturbance.				
Rafinesque's big-eared bat (Corynorhinus rafinesquii)		State Protected Rare Species	Requires dilapidated structures and mature forests with tree cavities near water.	1 - No Effect	Lack of preferred/suitable habitat within proposed action area, existing human disturbances, lack of occurrences, and minimal extent of disturbance.				
Swamp buckhorn (Sideroxylon thornei)		State Protected Rare Species	Requires forests with limesink depressions and swamps over limestone.	1 - No Effect	Required habitat not present.				
Bald eagle (Haliaeetus leucocephalus)	MBTA		Requires tall live pine trees located within 1-mile of large bodies of water for nesting	1 - No Effect	Minimal extent of disturbance associated with proposed action, no nests or occurrences, no lakes, rivers, or marshes within 1-mile of the proposed action area.				

### Appendix 3.

Historic & Significant Sites Documentation (including Form 620 and 621)



October 26, 2015

Ms. Jennifer Dixon, MHP, LEED Green Associate Program Manager, Environmental Review & Preservation Planning Georgia Department of Natural Resources – Historic Preservation Division Jewett Center for Historic Preservation 2610 GA Hwy 155, SW Stockbridge, Georgia 30281

Re: Proposed 150-ft (155-ft with appurtenances) Monopole Communications Tower

American Towers LLC Site Name: PCT SE Paper GA

American Towers LLC Site Number: 201440

FCC TCNS # 128471, filed 6/26/2015

S Hwy 199 Dublin, GA (Laurens County)

Dear Ms. Dixon,

Attached herein is the FCC 620 Review Packet for the proposed American Towers LLC (ATC) site identified as PCT SE Paper GA (ATC # 201440). Tower Engineering Professionals, Inc. (TEP) is submitting the FCC Form 620 to the Georgia Department of Natural Resources – Historic Preservation Division, via postal service, in order to satisfy the requirements of Section 106 Review of the National Historic Preservation Act for the proposed site. ATC proposes the construction of a 150-ft monopole communications tower that will be located west of a portion of S Hwy 199, Dublin, Laurens County, Georgia.

TEP and Southern Research Historic Preservation Consultants, Inc. (HPC) completed archaeological assessments for the proposed telecommunications tower site. The aforementioned assessments found three (3) previously unrecorded prehistoric sites (9Ls335, 9Ls336, and 9Ls337). consisted of undiagnostic lithic scatter and was located within a previously disturbed cut and graded road located within a portion of the proposed access & utility easement. However, it is the opinion of Southern Research HPC, that the site lacks both integrity and significance and therefore is not recommended to be eligible for listing in the National Register of Historic Places (NRHP). Site 9Ls336 consisted of undiagnostic lithic scatter and was located within a portion of the existing earthen two-track access drive within a portion of the proposed access & utility easement. According to the archaeological assessment completed by TEP, the site appears to have integrity but lacks artifact diversity, is small in size, and is a common site type and therefore not recommended to be eligible for listing in the NRHP. Site 9Ls337 consisted of ceramic and lithic scatter and was located within a portion of the existing earthen two-track access drive and within a portion of the proposed access & utility easement. According to TEP and Southern Research HPC, the site is identified as a Late Archaic and Woodland site that includes "a Savannah River type projectile point, Stallings Island Plain sherd, and a Deptford Simple Stamped sherd." Based on the integrity of the site, size of site



within the proposed access & utility easement, and the diversity of artifacts, it is the opinion of TEP that the site 9Ls337 could potentially address research questions regarding Late Archaic and Woodland period lifeways and land use in the region. Therefore if disturbance to the site cannot be avoided, it is the opinion of TEP and Southern Research HPC that further work is necessary through the completion of a Phase II Archaeological Evaluation to determine if site 9Ls337 is eligible for listing in the NRHP. For this reason, the determination of effect for direct effects (page 4) and the determination of eligibility (page 14) were intentionally left blank in the FCC Form 620. Please find the attached Cultural Resources Survey completed by Southern Research HPC and the Additional Archaeological Assessment completed by TEP.

Additionally, in efforts to expedite the proposed project we have also included the proposed Work Plan for the Phase II Archaeological Evaluation of site 9Ls337 as a separate document for your review/approval.

Please provide all correspondence to Tower Engineering Professionals at the address stated below.

Tower Engineering Professionals, Inc. Attn: Sarah-Beth Miller 326 Tryon Road Raleigh, NC 27603-3530

Sincerely,

Tower Engineering Professionals, Inc.

Sarah-Beth Miller

**Environmental Project Manager** 

### FCC Form 620

### FCC Wireless Telecommunications Bureau New Tower ("NT") Submission Packet

Approved by OMB 3060 – 1039 See instructions for public burden estimates

Notification Date: File Number:

### **General Information**

1)	(Select only one) ( <b>NE</b> – New		. – Upda	ate of A	pplication	WD – W	ithdrawal of Application	on	
	2) If this application is for an Update or Withdrawal, enter the file number of the pending application currently on file.  File Number:								
					Applican	t Informati	on		
3) F	CC Registration Num	per (FRN): <b>001</b>	149834	42					
4) N	lame: <b>American T</b> o	owers LLC (2'	150101	17)					
Cont	act Name								
5) F	irst Name: Brittney				6) MI:	7) Last Nam	e: VanderHeiden		8) Suffix:
9) T	itle: Regulatory Co	mpliance Sp	ecialis	t - Env	rir				
Cont	act Information								
10)	P.O. Box:		And /Or	11) St	reet Address: 1	I0 Presiden	ial Way		
12)	City: Woburn						13) State: <b>MA</b>	14) Zip Code	01801
15)	15) Telephone Number: <b>(781)926-4512</b> 16) Fax Number: <b>(781)926-7011</b>								
17)	E-mail Address: <b>Env</b>	iro.Services@	Amer	ricanTo	ower.com				
					Consult	ant Inform	ation		
18)	FCC Registration Nur	nber (FRN): 00	22346	555					
19)	Name: <b>Tower Engi</b>	neering Profe	ssiona	als, Ind	<b>&gt;.</b>				
Princ	cipal Investigator								
	First Name: Sarah				21) MI:	22) Last Nar	22) Last Name: <b>Stephens</b> 23) Suffi		23) Suffix:
24) Title: Archaeologist & Architectural Historian									
Princ	cipal Investigator (	Contact Inform	nation	ı					
25)	P.O. Box:		And /Or	26) St	reet Address: 3	26 Tryon R	oad		
27)	City: <b>Raleigh</b>						28) State: <b>NC</b>	29) Zip Code	27603
30)	Telephone Number: (	919)661-6351				31) Fax N	lumber:		
32)	E-mail Address: <b>sas</b> t	ephens@tep	group.	.net					

Professional Qualification			
33) Does the Principal Investigator satisfy the	Secretary of the Inter	ior's Professional Qualification Standards?	( <b>χ</b> ) <u>Y</u> es ( ) <u>N</u> o
34) Areas of Professional Qualification:			•
( <b>X</b> ) Archaeologist			
( <b>X</b> ) Architectural Historian			
( )Historian			
( ) Architect			
( ) Other (Specify)			
If "YES," complete the following:	ie Professional Qualifi	cation Standards of the Secretary of the Interior?	( <b>X</b> ) <u>Y</u> es ( ) <u>N</u> o
36) First Name: <b>Dean</b>	37) MI:	38) Last Name: <b>Wood</b>	39) Suffix:
40) Title: Southern Research HPC			
41) Areas of Professional Qualification:			
( <b>X</b> ) Archaeologist			
( ) Architectural Historian			
( ) Historian			
( ) Architect			

) Other (Specify) \_

### **Site Information**

Tower Construction Notification System		
1) TCNS Notification Number: 128471		
Site Information		
2) Positive Train Control Filing Subject to Expedited Treatment Under Program Comm	ent: ( ) <u>Y</u> es ( <b>X</b> ) <u>N</u>	0
3) Site Name: PCT SE Paper GA		
4) Site Address: S Hwy 199		
5) Detailed Description of Project:		
6) City: <b>Dublin</b>	7) State: <b>GA</b>	8) Zip Code: <b>31027</b>
9) County/Borough/Parish: LAURENS		
10) Nearest Crossroads: S Hwy 199 & Georgia Kraft County Rd/ Co Rd 106		
11) <b>NAD 83</b> Latitude (DD-MM-SS.S): <b>32-29-24.2</b>	( <b>X</b>	) <u>N</u> or ( ) <u>S</u>
12) <b>NAD 83</b> Longitude (DD-MM-SS.S): <b>082-50-00.4</b>	(	) <u>E</u> or ( <b>X</b> ) <u>W</u>
Tower Information		
13) Tower height above ground level (include top-mounted attachments such as lightni	ng rods): 47.244	( ) Feet ( X ) Meters
14) Tower Type (Select One):		
( ) Guyed lattice tower		
( ) Self-supporting lattice		
( X ) Monopole		
( ) Other (Describe):		
Project Status		
15) Current Project Status (Select One):		
( <b>X</b> ) Construction has not yet commenced		
( ) Construction has commenced, but is not completed Con	struction commenced on:	
( ) Construction has been completed Con	struction commenced on:	
Construction completed on:		

### **Determination of Effect**

14)	Direct Effects (Select One):
(	) No Historic Properties in Area of Potential Effects (APE)
(	) No Effect on Historic Properties in APE
(	) No Adverse Effect on Historic Properties in APE
(	) Adverse Effect on one or more Historic Properties in APE
15)	Visual Effects (Select One):
15)	Visual Effects (Select One):  ) No Historic Properties in Area of Potential Effects (APE)
(	
(	) No Historic Properties in Area of Potential Effects (APE)

Have Indian Tribes or Native Hawaiian Organizat significance to historic properties which may be a effects?			( <b>X</b> ) <u>Y</u> es ( ) <u>N</u> o
2a) Tribes/NHOs contacted through TCNS Notificati	on Number:1284	Number of Tribes/NHOs:	11
2b) Tribes/NHOs contacted through an alternate sys		Number of Tribes/NHOs	s: <b>0</b>
Tribe/NHO Contacted Through TCNS			
3) Tribe/NHO FRN:			
4) Tribe/NHO Name: Alabama Quassarte Trib	al Town		
Contact Name			
5) First Name: <b>Ace</b>	6) MI:	7) Last Name: <b>Buckner</b>	8) Suffix:
9) Title: Cultural Advisor	l		
Dates & Response			
10) Date Contacted	11) Date	Replied <b>07/01/2015</b>	
( )No Reply			
( ) Replied/No Interest			
( <b>X</b> ) Replied/Have Interest			
( ) Replied/Other			
Tribe/NHO Contacted Through TCNS			
3) Tribe/NHO FRN:			
4) Tribe/NHO Name: Coushatta Indian Tribe			
Contact Name			
5) First Name: <b>Linda</b>	6) MI: <b>P</b>	7) Last Name: <b>Langley</b>	8) Suffix:
9) Title: <b>THPO</b>			
Dates & Response			
10) Date Contacted	11) Date	Replied	
( <b>X</b> )No Reply			
( ) Replied/No Interest			
( ) Replied/Have Interest			
( ) Replied/Other			

<ol> <li>Have Indian Tribes or Native Hawaiian Orga significance to historic properties which ma effects?</li> </ol>				<b>X</b> ) <u>Y</u> es (	) <u>N</u> o	
2a) Tribes/NHOs contacted through TCNS No	tification Number: _128	471 Number of Tr	ribes/NHOs: 11			
	2b) Tribes/NHOs contacted through an alternate system:			Number of Tribes/NHOs: _0		
Tribe/NHO Contacted Through TCNS						
3) Tribe/NHO FRN:						
4) Tribe/NHO Name: Eastern Shawnee To	ribe of Oklahoma					
Contact Name						
5) First Name: <b>Robin</b>	6) MI:	7) Last Name: <b>Dushane</b>		8) Suffix:		
9) Title: <b>THPO</b>	-			1		
Dates & Response						
10) Date Contacted	11) Date	Replied <b>07/06/2015</b>				
( )No Reply						
( ) Replied/No Interest						
( ) Replied/Have Interest						
( X ) Replied/Other						
Tribe/NHO Contacted Through TCNS						
3) Tribe/NHO FRN:						
4) Tribe/NHO Name: Kialegee Tribal Tow	'n					
Contact Name						
5) First Name: <b>Kara</b>	6) MI: <b>J</b>	7) Last Name: <b>Gann</b>		8) Suffix:		
9) Title: Cultural Preservation Officer	•			•		
Dates & Response						
10) Date Contacted	11) Date	Replied				
(X) No Reply						
( ) Replied/No Interest						
( ) Replied/Have Interest						
( ) Replied/Other						

Have Indian Tribes or Native Hawaiian Organizatio significance to historic properties which may be affects?			( <b>X</b> ) <u>Y</u> es ( ) <u>N</u> o
2a) Tribes/NHOs contacted through TCNS Notification	n Number: _128	Number of Tribes/NHOs	:11
2b) Tribes/NHOs contacted through an alternate syste		Number of Tribes/NHO	s: <b>0</b>
Tribe/NHO Contacted Through TCNS			
3) Tribe/NHO FRN:			
4) Tribe/NHO Name: Muscogee Creek Nation			
Contact Name			
5) First Name: <b>Emman</b>	6) MI:	7) Last Name: <b>Spain</b>	8) Suffix:
9) Title: <b>THPO</b>			
Dates & Response			
10) Date Contacted	11) Date	e Replied	
( <b>X</b> )No Reply			
( ) Replied/No Interest			
( ) Replied/Have Interest			
( ) Replied/Other			
Tribe/NILIO Contacted Through TONS			
Tribe/NHO Contacted Through TCNS  3) Tribe/NHO FRN:			
4) Tribe/NHO Name: Poarch Band of Creek Ind	lians		
Contact Name			
5) First Name: <b>Robert</b>	6) MI:	7) Last Name: <b>Thrower</b>	8) Suffix:
9) Title: <b>THPO</b>			
Dates & Response			
10) Date Contacted <b>07/02/2015</b>	11) Date	e Replied	
( X ) No Reply			
( ) Replied/No Interest			
( ) Replied/Have Interest			
( ) Replied/Other			

Have Indian Tribes or Native Hawaiian Organizatio significance to historic properties which may be affects?			( <b>X</b> ) <u>Y</u> es ( ) <u>N</u> o
2a) Tribes/NHOs contacted through TCNS Notification	n Number: <b>128</b> 4	Number of Tribes/NHOs: 11	1
2b) Tribes/NHOs contacted through an alternate syste		Number of Tribes/NHOs: 0	
Tribe/NHO Contacted Through TCNS			
3) Tribe/NHO FRN:			
4) Tribe/NHO Name: Seminole Nation of Oklah	oma		
Contact Name			
5) First Name: <b>Seminole</b>	6) MI:	7) Last Name: <b>Nation</b>	8) Suffix:
9) Title: Historic Preservation Officer		1	
Dates & Response			
10) Date Contacted	11) Date	Replied	
( <b>X</b> )No Reply			
( ) Replied/No Interest			
( ) Replied/Have Interest			
( ) Replied/Other			
Tribe/NHO Contacted Through TCNS			
3) Tribe/NHO FRN:			
4) Tribe/NHO Name: Shawnee Tribe			
Contact Name			
5) First Name: <b>Kim</b>	6) MI:	7) Last Name: <b>Jumper</b>	8) Suffix:
9) Title: <b>THPO</b>	<u> </u>	•	
Dates & Response			
10) Date Contacted <b>07/02/2015</b>	11) Date	Replied <b>07/13/2015</b>	
( ) No Reply			
( ) Replied/No Interest			
( ) Replied/Have Interest			
( X ) Replied/Other			

Have Indian Tribes or Native Hawaiian Organizati significance to historic properties which may be a effects?				( <b>X</b> ) <u>Y</u> es ( ) <u>N</u> o	
2a) Tribes/NHOs contacted through TCNS Notification	on Number: 128	3471	Number of Tribes/NHOs:11		
2b) Tribes/NHOs contacted through an alternate sys	tem:		Number of Tribes/NHOs: _0		
Tribe/NHO Contacted Through TCNS					
3) Tribe/NHO FRN:					
4) Tribe/NHO Name: Thlopthlocco Tribal Tow	n				
Contact Name					
5) First Name: <b>Charles</b>	6) MI:	7) Last Name: Co	oleman	8) Suffix:	
9) Title: THPO/NAGPRA Representative	<b>,</b>				
Dates & Response					
10) Date Contacted	11) Date	e Replied			
( <b>X</b> )No Reply					
( ) Replied/No Interest					
( ) Replied/Have Interest					
( ) Replied/Other					
Tribe/NHO Contacted Through TCNS					
3) Tribe/NHO FRN:					
4) Tribe/NHO Name: Tuscarora Nation					
Contact Name					
5) First Name: <b>Leo</b>	6) MI: <b>R</b>	7) Last Name: He	enry	8) Suffix:	
9) Title: <b>Chief</b>	•				
Dates & Response					
10) Date Contacted	11) Date	e Replied			
(X)No Reply					
( ) Replied/No Interest					
( ) Replied/Have Interest					
( ) Replied/Other					

Have Indian Tribes or Native Hawaiian Organizati significance to historic properties which may be a effects?			( <b>X</b> ) <u>Y</u> es ( ) <u>N</u> o
2a) Tribes/NHOs contacted through TCNS Notification	on Number: 128	Number of Tribes/NHOs: 11	
2b) Tribes/NHOs contacted through an alternate sys		Number of Tribes/NHOs: _0_	
Tribe/NHO Contacted Through TCNS			
3) Tribe/NHO FRN:			
4) Tribe/NHO Name: United Keetoowah Band	of Cherokee In	dians	
Contact Name			
5) First Name: <b>Lisa</b>	6) MI: <b>C</b>	7) Last Name: LaRue-Baker	8) Suffix:
9) Title: Acting THPO	•		
Dates & Response			
10) Date Contacted	11) Date	Replied <b>07/16/2015</b>	
( ) No Reply			
( ) Replied/No Interest			
( ) Replied/Have Interest			
( X ) Replied/Other			

### Other Tribes/NHOs Contacted

Tribe/NHO Information									
1) FCC Registration Number (FRN):									
2) Name:									
Contact Name									
3) First Name:	4) MI:	5) Last N	i) Last Name:			6) Suffix:			
7) Title:									
Contact Information									
8) P.O. Box:	And /Or	9) Str	eet Address:						
10) City:						11) State:	12) Zip Code	de:	
13) Telephone Number:				14) Fa	4) Fax Number:				
15) E-mail Address:									
16) Preferred means of communication:									
( ) E-mail									
( ) Letter									
( ) Both									
Dates & Response									
17) Date Contacted			18) Date R	Replied					
( ) No Reply									
( ) Replied/No Interest									
( ) Replied/Have Interest									
( ) Replied/Other									

### **Historic Properties**

<b>Properties</b>	Identified
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1) Have any historic properties been identified within the APEs for direct and visual effect?	( <b>χ</b> ) <u>Y</u> es ( ) <u>N</u> o
2) Has the identification process located archaeological materials that would be directly affected, or sites that are of cultural or religious significance to Tribes/NHOs?	( <b>χ</b> ) <u>Y</u> es ( ) <u>N</u> o
3) Are there more than 10 historic properties within the APEs for direct and visual effect?  If "Yes", you are required to attach a Cultural Resources Report in lieu of adding the Historic Property below.	( ) <u>Y</u> es ( <b>X</b> ) <u>N</u> o

cultural or religious significance to Tribes/NHOs?	( <b>χ</b> ) <u>Y</u> es ( ) <u>N</u> o		
3) Are there more than 10 historic properties within the APEs for direct and visual effect if "Yes", you are required to attach a Cultural Resources Report in lieu of adding the	( ) <u>Y</u> es ( <b>X</b> ) <u>N</u> o		
Historic Property			
4) Property Name: 9Ls335			
5) SHPO Site Number: <b>9Ls335</b>			
Property Address			
6) Street Address: Off of S Hwy 199			
7) City: <b>Dublin</b>	8) State: <b>GA</b>	9) Zip Co	ode: <b>31027</b>
10) County/Borough/Parish: LAURENS			
Status & Eligibility			
11) Is this property listed on the National Register?			
Source:			( ) <u>Y</u> es ( <b>X</b> ) <u>N</u> o
12) Is this property eligible for listing on the National Register?			
Source:			( ) <u>Y</u> es ( <b>X</b> ) <u>N</u> o
13) Is this property a National Historic Landmark?			( ) <u>Y</u> es ( <b>X</b> ) <u>N</u> o
			<u> </u>
14) Direct Effects (Select One):			
( X ) No Effect on this Historic Property in APE			
) No Adverse Effect on this Historic Property in APE			
( ) Adverse Effect on this Historic Property in APE			
15) Visual Effects (Select One):			
( X ) No Effect on this Historic Property in APE			
( ) No Adverse Effect on this Historic Property in APE			
( ) Adverse Effect on this Historic Property in APE			

Properties	Identified
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) No Adverse Effect on this Historic Property in APE ) Adverse Effect on this Historic Property in APE

Properties Identified Historic Properties	į.		
Froperties identified			1
1) Have any historic properties been identified within the APEs for direct and visual effe	ect?		( <b>X</b> ) <u>Y</u> es ( ) <u>N</u> o
2) Has the identification process located archaeological materials that would be directly cultural or religious significance to Tribes/NHOs?	( <b>χ</b> ) <u>Y</u> es ( ) <u>N</u> o		
3) Are there more than 10 historic properties within the APEs for direct and visual effect If "Yes", you are required to attach a Cultural Resources Report in lieu of adding the		w.	( ) <u>Y</u> es ( <b>X</b> ) <u>N</u> o
Historic Property			
4) Property Name: 9Ls336			
5) SHPO Site Number: 9Ls336			
Property Address			
6) Street Address: Off of S Hwy 199			
7) City: <b>Dublin</b>	8) State: GA	9) Zip Co	ode: <b>31027</b>
10) County/Borough/Parish: LAURENS			
Status & Eligibility			
11) Is this property listed on the National Register?			
Source:			( ) <u>Y</u> es ( <u>X</u> ) <u>N</u> o
12) Is this property eligible for listing on the National Register?			
Source:			( ) <u>Y</u> es ( <b>X</b> ) <u>N</u> o
000100.			
13) Is this property a National Historic Landmark?			( ) <u>Y</u> es ( <b>X</b> ) <u>N</u> o
14) Direct Effects (Select One):			
( X ) No Effect on this Historic Property in APE			
( ) No Adverse Effect on this Historic Property in APE			
( ) Adverse Effect on this Historic Property in APE			
15) Visual Effects (Select One):			
( X ) No Effect on this Historic Property in APE			

Historic Properties	
Properties Identified	
1) Have any historic properties been identified within the APEs for direct and visual effect?	( <b>χ</b> ) <u>Y</u> es ( ) <u>N</u> o
2) Has the identification process located archaeological materials that would be directly affected, or sites that are of cultural or religious significance to Tribes/NHOs?	( <b>χ</b> ) <u>Y</u> es ( ) <u>N</u> o
3) Are there more than 10 historic properties within the APEs for direct and visual effect?  If "Yes", you are required to attach a Cultural Resources Report in lieu of adding the Historic Property below.	( ) <u>Y</u> es ( <b>X</b> ) <u>N</u> o
Historic Property	
4) Property Name: 9Ls337	
5) SHPO Site Number: 9Ls337	

6) Street Address: Off of S Hwy 199		
7) City: <b>Dublin</b>	8) State: <b>GA</b>	9) Zip Code: <b>31027</b>
10) County/Borough/Parish: LAURENS		

14)	14) Direct Effects (Select One):						
(	) No Effect on this Historic Property in APE						
(	) No Adverse Effect on this Historic Property in APE						
(	) Adverse Effect on this Historic Property in APE						
	15) Visual Effects (Select One):						
15)	Visual Effects (Select One):						
15) ( <b>X</b>							
. ′							

### **Local Government Involvement**

Local Government Agency								
1) FCC Registration Number (FRN):								
2) Name: Laurens County Board o	f Comi	missio	ners					
Contact Name								
3) First Name: <b>Emory</b> 4) MI: 5) Last Name: <b>Lake</b> 6) Suffix:								
7) Title: Laurens County Commiss	ioner -	Distri	ct 5					
Contact Information								
8) P.O. Box: <b>2011</b>	And /Or	9) Str	eet Address:					
10) City: <b>Dublin</b>		•			11) State: GA	12) Zip Code:	31040	
13) Telephone Number: (478)277-292	5			14) Fax N	umber:			
15) E-mail Address: lakee@dlcga.co	m							
16) Preferred means of communication:								
( <b>X</b> ) E-mail								
( ) Letter								
( ) Both								
Dates & Response								
17) Date Contacted <b>07/01/2015</b>			18) Date R	Replied				
( <b>X</b> ) No Reply								
( ) Replied/No Interest								
( ) Replied/Have Interest								
( ) Replied/Other								
L Additional Information								
19) Information on local government's rol	e or inte	erest (or	otional):					
No reply has been received to da		- 1 (5)	,					

## **Local Government Involvement**

1) FCC Registration Number (FRN):							
2) Name: City of Dublin Historic B	oard						
Contact Name							
3) First Name: <b>Johnny</b>			4) MI:	5) Last Name	e: Parham		6) Suffix:
7) Title: Building Inspector							
Contact Information							
8) P.O. Box: <b>690</b>	And /Or	9) Stre	eet Address:				
10) City: <b>Dublin</b>					11) State: GA	12) Zip Code:	31040
13) Telephone Number: (478)277-507	0			14) Fax N	umber:		
15) E-mail Address: parhamj@dlcga	.com						
16) Preferred means of communication:							
( X ) E-mail							
( ) Letter							
( ) Both							
Dates & Response							
17) Date Contacted <b>07/01/2015</b>			18) Date R	eplied			
( X ) No Reply							
( ) Replied/No Interest							
( ) Replied/Have Interest							
( ) Replied/Other							
Additional Information							
19) Information on local government's role or interest (optional):							
No reply has been received to date.							

Other Consulting Parties Contacted			isuiting Fa				
1) Has any other agency been contacted and invited to become a consulting party? (X) Yes (							) <u>N</u> o
Consulting Party							
2) FCC Registration Number (FRN):							
3) Name: Oconee Regional Library							
Contact Name							
4) First Name: <b>Leard</b>		5) MI:	6) Last Nam	ne: <b>Daughety</b>		7) Suffix:	
8) Title: <b>Director</b>							
Contact Information							
9) P.O. Box: <b>100</b>	And /Or	10) Street Address:					
11) City: <b>Dublin</b>				12) State: <b>GA</b>	13) Zip (	Code: <b>31021</b>	
14) Telephone Number: <b>(478)272-5710</b>	)		15) Fax I	Number:	•		
16) E-mail Address: heritage@ocrl.or	g						
17) Preferred means of communication:							
( X ) E-mail							
( ) Letter							
( ) Both							
Dates & Response							
18) Date Contacted <b>07/01/2015</b>		19) Date	Replied				
( X ) No Reply							
( ) Replied/No Interest							
( ) Replied/Have Interest							
( ) Replied/Other							
<u> </u>							
Additional Information							
20) Information on other consulting partie  No reply has been received to date		or interest (optional):					

Other Consulting Parties Contacted	ł							
1) Has any other agency been contacted and invited to become a consulting party?   (X) Yes ()						) <u>N</u> o		
Consulting Party								
2) FCC Registration Number (FRN):								
3) Name: Regional Historic Commi	issions	of Georgia - H	Heart of	Georgia -	Altamaha Region	al Commissi	ion (Region 9)	
Contact Name								
4) First Name: <b>Robin</b>		5) MI:	6	) Last Name	: Nail		7) Suffix:	
8) Title:								
Contact Information								
9) P.O. Box:	And /Or	10) Street Addr	ress: <b>54(</b>	05 Oak Stre	eet			
11) City: Eastman					12) State: <b>GA</b>	13) Zip C	Code: <b>31023</b>	
14) Telephone Number: <b>(912)367-3648</b>	3			15) Fax Nu	umber:	•		
16) E-mail Address: rbnail@hogarc.o	org							
17) Preferred means of communication:								
( X ) E-mail								
( ) Letter								
( ) Both								
Dates & Response								
18) Date Contacted <b>07/01/2015</b>		19) [	 Date Rep	lied <b>07/21/2</b>	2015			
( ) No Reply								
( ) Replied/No Interest								
( <b>x</b> ) Replied/Have Interest								
( ) Replied/Other								
Additional Information								
20) Information on other consulting partie The Heart of Georgia Altamaha Re				ed to be a	consulting party	on the proje	ct	
The field of Goorgia Amamama	zgiona.	Commission.	requee.	ieu io bo u	Consuming party	کرد تا ۱۱۰۰ کار	Ct.	

Other Consulting Parties Contacted							
Has any other agency been contacted and invited to become a consulting party?						( <b>X</b> ) <u>Y</u> es (	) <u>N</u> o
Consulting Party							
2) FCC Registration Number (FRN):							
3) Name: Laurens County Historica	al Soci	ety/ Dublin-Laurens	Museum				
Contact Name							
4) First Name: <b>Scott</b>		5) MI:	6) Last Name	: Thompson		7) Suffix:	
8) Title: Senior Director						•	
Contact Information							
9) P.O. Box: <b>1461</b>	And /Or	10) Street Address:					
11) City: <b>Dublin</b>				12) State: <b>GA</b>	13) Zip C	Code: <b>31040</b>	
14) Telephone Number: <b>(478)272-9242</b>	!		15) Fax Nu	umber:	•		
16) E-mail Address: museum@laurer	nshisto	ory.org					
17) Preferred means of communication:							
( X ) E-mail							
( ) Letter							
( ) Both							
Dates & Response							
18) Date Contacted <b>07/01/2015</b>		19) Date Re	eplied				
( X ) No Reply							
( ) Replied/No Interest							
( ) Replied/Have Interest							
( ) Replied/Other							
Additional Information							
20) Information on other consulting partie No reply has been received to date		or interest (optional):					

Other Consulting Parties Contacted			Other Cons	suiting Fan				
1) Has any other agency been contacted and invited to become a consulting party? (X) Yes () No							) <u>N</u> o	
Consulting Party								
2) FCC Registration Number (FRN):								
3) Name: Georgia Historical Societ	у							
Contact Name								
4) First Name: Lynette			5) MI:	6) Last Name	: Stoudt		7) Suffix:	
8) Title: <b>Director</b>								
Contact Information								
9) P.O. Box:	And /Or	10) St	reet Address: §	01 Whitaker	Street			
11) City: Savannah					12) State: <b>GA</b>	13) Zip C	Code: <b>31401</b>	
14) Telephone Number: <b>(912)651-2125</b>	5			15) Fax N	umber:	•		
16) E-mail Address: Istroudt@georgi	ahisto	ry.com		•				
17) Preferred means of communication:								
( <b>X</b> ) E-mail								
( ) Letter								
( ) Both								
Dates & Response								
18) Date Contacted <b>07/01/2015</b>			19) Date R	eplied <b>07/01/</b>	2015			
( ) No Reply								
( <b>X</b> ) Replied/No Interest								
( ) Replied/Have Interest								
( ) Replied/Other								
Additional Information								
20) Information on other consulting partie  Ms. Stroudt does not believe she								
mo. Othough does not believe slie	o qua	eu lu	, Johnnetti.					

## **Designation of SHPO/THPO**

1) Designate the Lead State Historic Preservation Officer (SHPO) or Tribal Historic Preservation Officer (THPO) based on the location of the tower.

SHPO/THPO				
Name: Georgia Historic Preservation Division				
You may also designate up to three additional SHPOs/The National Historic Preservation Agency and any state are			e other cour	ntries, enter the name of
SHPO/THPO Name:				
SHPO/THPO Name:				
SHPO/THPO Name:				
	Cert	ification		
I certify that all representations on this FCC Form 620 Su	ıbmission Pack	et and the accompanying attachments are tr	ue, correct,	and complete.
Party Authorized to Sign				
First Name:	MI:	Last Name:		Suffix:
Signature:			Date:	
FAILURE TO SIGN THIS APPLICATION MAY RESULT	IN DISMISSAL	OF THE APPLICATION AND FORFEITUR	E OF ANY	FEES PAID.

WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18, Section 1001) AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

# Attachments:

Туре	Description	Date Entered
Resumes/Vitae	Archaeologist/Architectural Historian Sarah Stephens Resume	10/08/2015
Map Documents	Aerial Photograph	10/08/2015
Photographs	Site Photographs	10/08/2015
State-Specific Forms	9Ls335 GA Site File Form	10/08/2015
State-Specific Forms	9Ls336 GA Site File Form	10/08/2015
State-Specific Forms	9Ls337 GA Site File Form	10/08/2015
Cultural Resources Report	Phase I Archaeological Assessment - Southern Research HPC	10/08/2015
Tribal/NHO Involvement	FCC Inital Email	10/08/2015
Tribal/NHO Involvement	FCC Tribe List	10/08/2015
Local Government Involvement	Sample Local Government Letter	10/08/2015
Public Involvement	Sample Additional Consulting Parties Letter	10/08/2015
Public Involvement	Affidavit of Publication - Courier Herald	10/08/2015
Historic Properties for Visual Effects	Topographic Map with APE	10/08/2015
Area of Potential Effects	HPD File Checklist	10/14/2015
Historic Properties for Direct Effects	Additional Archaeological Assessment - TEP	10/14/2015
Resumes/Vitae	Archaeologist Dean Wood (Southern Reserach HPC) Resume	10/14/2015
Additional Site Information	Construction Drawings	10/15/2015
Public Involvement	Response from Regional Historic Commission of GA	10/15/2015
Public Involvement	Response from GA Historical Society	10/15/2015

22 of 22 FCC Form 620 May 2014

#### NT SUBMISSION PACKET - FCC FORM 620

# **Attachments**

### Attachment 1. Résumés/Vitae

See attached resumes of Dean Wood, Principal Archaeologist with Southern Research Historic Preservation Consultants (HPC), Matt Wood, archaeologist for HPC, and Will Lowe, archaeologist for HPC.

See attached resume of Sarah Stephens, archaeologist and architectural historian for Tower Engineering Professionals, Inc. (TEP).

### **Attachment 2. Additional Site Information**

The proposed 150-ft monopole communications tower (155-ft with appurtenances) will be located west of a portion of S Hwy 199, Dublin, Laurens County, Georgia. The proposed 30-ft wide access & utility easement, tower compound lease area, and the 30-ft buffer surrounding the proposed lease area will be located on the northwestern portion of an approximately 3,303.36-acre parcel identified as Parcel: 203 064, by the Laurens County, GA Tax Assessors Office. Access to the site will be provided by a proposed 30-ft wide access & utility easement, which will proceed west from a portion of S Hwy 199, along an existing earthen/gravel access drive for approximately 3,960-ft before turning northeast and continuing approximately 1,072-ft along a portion of an existing earthen two-track access drive, and continuing approximately 35-ft through a portion of an undeveloped forested area until reaching the proposed 100-ft x 100-ft American Towers LLC compound lease area. The proposed tower facility will include the aforementioned 100-ft x 100-ft American Towers LLC lease area and the associated access & utility easement, along with a 30-ft buffer surrounding the proposed tower compound lease area.

The topography of the site is relatively flat and slightly sloping to the south-southwest and located in a portion of Laurens County where the surrounding land is primarily occupied by fallow, low density residential, undeveloped forested, and industrial land uses associated with a paper mill.

### **Attachment 3.** Tribal and NHO Involvement

Tower Engineering Professionals filed the proposed facility with the FCC – Tower Construction Notification System (TCNS) on 6/23/2015 and was assigned TCNS # 128471. In addition, TEP personnel sent, via email or standard mail, correspondence to all applicable tribes on October 26, 2015 requesting review of the Phase II Archaeological Assessment Plan of Work. Additional correspondence will be sent to all tribes once the Phase II Archaeological Assessment is completed.

#### Attachment 4.

TEP contacted the City of Dublin Historic Board (CLG) and the Laurens County Board of Commissioners on 7/1/2015 and invited them to be a consulting party regarding the proposed communications facility. No responses have been received to date. See attached copies of letters.

### Attachment 5.

TEP placed a Public Notice in "The Courier-Herald" newspaper that was advertised on 7/11/2015, 7/18/2015, 7/25/2015, 8/1/2015, & 8/8/2015 and has requested any comments be delivered to TEP by 8/10/2015. No comments have been received to date. Please see attached copy of the Affidavit of Publication.

#### Attachment 6.

TEP contacted the Regional Historic Commissions of Georgia – Heart of Georgia-Altamaha Regional Commission (Region 9), Oconee Regional Library, Laurens County Historical Society and Georgia Historical Society on 7/1/2015 requesting any comments they may have regarding the proposed undertaking by 8/5/2015.

Ms. Robin Nail, Senior Planner/Historic Preservation Planner with the Heart of Georgia-Altamaha Regional Commission responded on 7/21/2015 and stated that their review of the 1976 Laurens County Historic Resources Survey indicated that no structures appear to be located within the APE. However, the Commission stated that due to the age of the survey there may be structures within the APE that are now old enough to be considered historic and requested to be a consulting party on the project.

Ms. Lynette Stoudt of the Georgia Historical Society responded on July 1, 2015 and stated that she did not believe she was qualified to comment.

See attached copies of letters and responses.

### Attachment 7.

- **a.** The geographic area, scale and nature of the undertaking and subsequent effects of the proposed project were analyzed to determine the APE for direct effects. The determined APE for direct effects is the location of a proposed 30-ft wide access & utility easement and the proposed 100-ft x 100-ft tower compound lease area, along with a 30-ft buffer area surrounding the proposed lease area. See attached Construction Drawings.
- **b.** The geographic area, scale and nature of the undertaking and subsequent effects of the proposed project were analyzed to determine the APE for visual effects. Further, required background research and suggested standards in the FCC Nationwide Programmatic Agreement were reviewed to determine the APE for visual effects for

the proposed project. The APE for visual effects is determined to be a 0.5-mile radius from the proposed telecommunications tower site. The determined APE for visual effects is currently primarily occupied by fallow, low density residential, undeveloped forested, and industrial land uses associated with a paper mill.

# **Attachment 8.** Historic Properties Identified in the APE for Visual Effects

- a. Although, no (0) historic properties listed in the National Register, or formally determined eligible for listing by the Keeper of the National Register, or is identified as considered eligible for listing in the records of the SHPO/THPO, pursuant to Section VI.D.1.a. of the Nationwide PA were identified in the determined FCC 0.5-mile APE for visual effects. Three (3) previously unrecorded prehistoric sites (9Ls335, 9Ls336, and 9Ls337) were identified within the proposed access & utility easement. See attachment 9 for detailed information regarding the aforementioned prehistoric sites.
- **b.** As of October 26, 2015 TEP has not been made aware of any properties identified by comment in the determined APE for visual effects.
- **c.** No (0) listed or eligible properties that are no longer eligible were identified in the determined APE for visual effects during the research completed at the Georgia Department of Natural Resources Historic Preservation Division office.

# **Attachment 9.** Historic Properties Identified in the APE for Direct Effects

- **a.** Three (3) previously unrecorded prehistoric sites, 9Ls335, 9Ls336, and 9Ls337, were located within the APE for direct effects.
- **b.** TEP and Southern Research HPC completed the archaeological assessment for the proposed tower site. During their assessment, three (3) previously unrecorded prehistoric sites were identified.
  - Site 9Ls335 identified as undiagnostic lithic scatter located within a portion of the existing gravel/earthen access road. According to Southern Research HPC, the existing access road has been previously cut and graded and as such does not have integrity, is not recommended as significant, and does not meet the criteria of eligibility (36 C.F.R. Part 63) for listing in the National Register of Historic Places (NRHP).
  - **Site 9Ls336** identified as undiagnostic lithic scatter located within a portion of the two-track and earthen access road. According to TEP, the site appears to have integrity but lacks artifact diversity, is small in size, and is a common site type and therefore not recommended to be eligible for listing in the NRHP.
  - Site 9Ls337 identified as ceramic and lithic scatter located within a portion of the existing two-track and earthen road. According to TEP and Southern Research HPC, the site is identified as a Late Archaic and Woodland site that includes "a Savannah River type projectile point,

Stallings Island Plain sherd, and a Deptford Simple Stamped sherd." The assessment revealed that the existing access road was previously disturbed by road grading; however, shovel tests indicated that soil Stratum II, which contained artifacts, appears to be intact. Therefore, it is the opinion of Southern Research HPC and TEP that the site may be able to address research questions regarding Late Archaic and Woodland period lifeways and land use in this region and recommends that the site either be avoided and preserved in place or further investigation of the site (Phase II archaeological evaluation) be completed to determine the NRHP eligibility of the site.

c. Dean Wood, Principal Archaeologist for Southern Research HPC and Sarah Stephens, archaeologist and architectural historian for TEP completed the archaeological assessment for the proposed tower site. Southern Research HPC completed the Cultural Resources Survey in July, 2015 which included a historic structure survey and an archaeological assessment. The historic structure survey consisted of completing a site records search at the Georgia Department of Natural Resources -Historic Preservation Division (HPD). As part of the aforementioned records search, numerous site files were reviewed including the GA Archaeological Site File (UGA, Athens), Historic Resources Survey Files, National Register Files, Identified Sites Files, Centennial Farms Files, Environmental Review Files, and the NAHRGIS. Additionally, historic soil survey maps and aerial photographs were reviewed to identify the potential of previously unrecorded historic structures being located within the APE and public roads were driven nearby the proposed tower site to identify previously unrecorded historic structures. No previously recorded historic resources were identified as being located within the APE and no previously unrecorded historic structures were identified.

The archaeological assessment completed by Southern Research HPC consisted of a surface investigation and excavation of shovel tests at 15 meter intervals in areas of the access road, the proposed tower compound lease area, and 30-ft buffer area that had limited surface visibility. According to HPC's report, approximately thirty-four (34) shovel tests were completed within the direct effects APE. The additional archaeological assessment completed by Sarah Stephens of TEP consisted of one (1) excavation shovel test within site 9Ls336 and two (2) excavation shovel tests within site 9Ls337. See attached Cultural Resources Survey completed by Southern Research HPC and Additional Archaeological Assessment completed by Sarah Stephens of TEP for further information.

### **Attachment 10.** Effects on Identified Properties

a. To be determined – No (0) Historic Properties listed in or eligible for listing in the National Register of Historic Places (NRHP) were identified within the 0.5-mile APE. However, three (3) previously unrecorded prehistoric sites (9Ls335, 9Ls336, and 9Ls337) were identified in the archaeological assessments completed for the proposed telecommunications tower facility.

- **Site 9Ls335** undiagnostic lithic scatter within existing cut and graded access road. Site does not have integrity and is not recommended as significant. Therefore site is not recommended as eligible for listing in NRHP.
- **Site 9Ls336** undiagnostic lithic scatter within existing two-track and earthen access drive. Although site has integrity the site is not recommended as eligible for listing in the NRHP due to lack of artifact diversity, small size, and due to common nature of site.
- Site 9Ls337 ceramic and lithic scatter within existing two-track and earthen access drive. The site is identified as a Late Archaic and Woodland site that includes "a Savannah River type projectile point, Stallings Island Plain sherd, and a Deptford Simple Stamped sherd." Based on the integrity of the site, size of site within the proposed access & utility easement, and the diversity of artifacts, it is the opinion of TEP that the site could potentially address research questions regarding Late Archaic and Woodland period lifeways and land use in the region. Therefore if disturbance to the site cannot be avoided, it is the opinion of TEP and Southern Research HPC, that further work is necessary through the completion of a Phase II Archaeological Evaluation to determine if the site is eligible for listing in the NRHP.
- **b.** None
- **c.** N/A

### Attachment 11. Photographs

- **a.** See attached site photographs and attached Cultural Resources Survey completed by Southern Research HPC and Additional Archaeological Assessment completed by TEP.
- **b.** N/A
- **c.** N/A
- **d.** See attached Aerial photograph.

## Attachment 12. Maps

- **a.** See attached
- **b.** See attached
- **c.** N/A

# **Direct Effect Research Summary**

Background research to identify Historic Properties within the *direct effects* APE associated with a proposed 150-ft (155-ft with appurtenances) monopole communications tower facility was conducted by Dean Wood, principal archaeologist for Southern Research Historic Preservation Consultants (HPC), Inc. in July, 2015. Southern Research HPC completed a site records search at the Georgia Department of Natural Resources – Historic Preservation Division (HPD) on 7/7/2015, which included the GA Archaeological State File (UGA, Athens), Historic Resources Survey Files (HPD), National Register Files (HPD), Identified Sites Files (HPD), Centennial Farms Files (HPD), Environmental Review Files (HPD), and NAHRGIS (online). Southern Research HPC completed an archaeological assessment in July, 2015 for the proposed telecommunications tower facility. Sarah Stephens, archaeologist and architectural historian for TEP, completed an additional archaeological assessment on September 1, 2015 for the proposed telecommunications facility.

### **Research Results**

Total historic resources: 3

Total NR listed or potentially eligible: To be determined

Total not eligible resources: 2

Site Number	Site Name	County	State	SHPO Status	Resource Description	Approx. Distance from Tower
9Ls335		Laurens	GA	Recommended as not eligible	Undiagnostic lithic scatter	Partially within proposed access & utility easement
9Ls336		Laurens	GA	Recommended as not eligible	Undiagnostic lithic scatter	Partially within the proposed access & utility easement
9Ls337		Laurens	GA	To be determined	Late Archaic and Woodland Site consisting of prehistoric lithic and ceramic scatter	Partially within the proposed access & utility easement

## **Visual Effect Research Summary**

Background research to identify Historic Properties within the 0.5 mile *visual effects* APE associated with a proposed 150-ft (155-ft with appurtenances) monopole communications tower facility was conducted by Dean Wood, principal archaeologist for Southern Research Historic Preservation Consultants (HPC), Inc. in July, 2015. Southern Research HPC completed a site records search at the Georgia Department of Natural Resources – Historic Preservation Division (HPD) on 7/7/2015, which included the GA Archaeological State File (UGA, Athens), Historic Resources Survey Files (HPD), National Register Files (HPD), Identified Sites Files (HPD), Centennial Farms Files (HPD), Environmental Review Files (HPD), and NAHRGIS (online).

# **Visual Effects Research Results**

Total historic resources: 0

Total NR listed or potentially eligible: 0

Locally designated historic resources: 0

Total not eligible historic resources: 0

DHR ID Number	Site Name		State	SHPO Status	Approx. Distance from Tower		
Architectural Resources							
	No p	reviously record	ed sites				
	Archaeological Resources						
	No previously recorded sites						

# Cultural Resources Survey of the Proposed PCT SE Paper Communication Tower Tract Laurens County, Georgia

By

W. Dean Wood, RPA Principal Investigator 28 July 2015

### Introduction

On 8, 14 and 17 July, 2015, Southern Research Historic Preservation Consultants, Inc. conducted a cultural resources survey of the proposed PCT SE Paper telecommunications tower tract and access easement in Laurens County, Georgia (Figure 1). The investigation was conducted on behalf of Tower Engineering Professionals (TEP) in compliance with relevant permitting regulations regarding the identification and treatments of significant cultural resources. The objectives of this survey were to identify all archaeological sites and historic structures within the project impact areas, evaluate their significance based on National Register of Historical Places (NRHP) criteria and determine the potential effects of the proposed construction on these resources in an effort to meet the requirements of Section 106 of the National Historic Preservation Act and the FCC's Nationwide Programmatic Agreement.

The project area is located at the edge of the Oconee River floodplain west of State Route 199 approximately nine kilometers southeast of Dublin, Georgia (Figures 2 and 3). The proposed tower will be 48.78 m (160 feet) tall and will be situated on a 30.5 m by 30.5 m (100 by 100 foot) tower lease tract with a 10 m (33 foot) buffer with an approximately 1.6 km (one mile) long access easement. The access easement is nine meters (30 feet) wide and turns west off of Georgia Highway 199. It will be constructed entirely within the existing graded dirt road. The tower tract is situated in a pine plantation and with level topography (Figures 4 and 5).

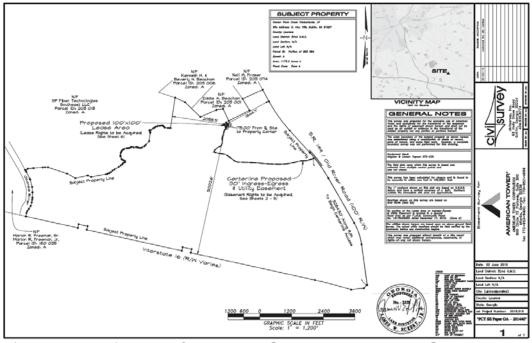


Figure 1. Location map for proposed access easement and tower.

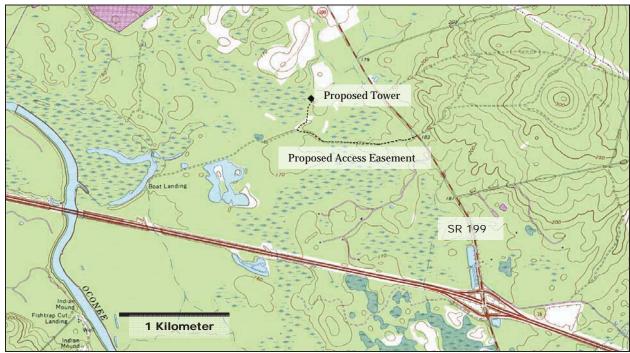


Figure 2. Location of proposed tower and access road on USGS Minter Quad (USGS 1974)



Figure 3. Aerial imagery showing location of proposed tower and access easement (USGS 2013).



Figure 4. Proposed access easement looking west from State Route 199.



Figure 5. View to the north, across the proposed tower location.

# **Methods Background Research**

Background research included a review of records on file at the Historic Preservation Division in Stockbridge and the online files of the Georgia Natural, Archaeological and Historic Resources GIS (GNAHRGIS). Historic maps and aerial images available on line were also reviewed to determine if any historic structures were present. An Area of Potential Effect (APE) of one half mile was established based on guidelines provided in the FCC Programmatic Agreement with the telecommunication industry. The Archaeological Site File was searched using GNAHRGIS and while no sites were recorded near the proposed tower or access easement previous archaeological studies in the vicinity were reviewed. These were Marvin T. Smith's excavations in 1977 at Archaic and Woodland Period sites three kilometers northwest of the study area (Smith 1978) and Mark Williams' excavations in 1996 at the Woodland and Mississippian Period Sawyer Site (9Ls1) at Fishtrap Cut Landing on the Oconee River, about three kilometers southwest of the study area (Williams 1996).

# **Methods Archaeological Survey**

The archaeological survey was conducted in compliance with all standards established by the Georgia State Historic Preservation Office (SHPO) and the Eastern Shawnee Tribe of Oklahoma's Cultural Heritage Department. Fieldwork was conducted by Dean Wood, Principal Investigator, Matt Wood, Archaeologist and Will Lowe, Archaeologist all from Southern Research, HPC, Inc. The survey consisted of surface searching the access road and excavation of shovel tests at 15 meter intervals in areas of the access road and tower compound that had limited surface visibility. From the beginning of the access road at State Route 199 west to where the access easement turns north, the surface is exposed sufficiently to observe artifacts or cultural features without digging. Plus, it had rained hard in the preceding week creating perfect surface collecting conditions (Figure 6). After the proposed access easement turns north, surface exposure lessens and shovel tests measuring 40 cm by 40 cm were excavated into sterile subsoil. All shovel test fill was screened through 0.6 cm (0.25 inch) hardware cloth. The soil stratigraphy of the shovel test was recorded on field forms. Digital photographs were taken of the shovel test and the general tract surroundings. This investigation required 32 person hours.



Figure 6. Surface visibility was excellent along portions of the access easement.

The soils at the proposed tower are primarily Clarendon Loamy Sand with a 0-2 percent slope surrounded by Herod/Muckalee Sandy Loams which are frequently flooded. The existing dirt road crosses Fuquay Loamy Sand and Herod/Muckalee Sandy Loams. The following soil profiles were encountered in the tower tract and adjacent access road:

0-20 cmbs dark gray loamy sand 20-60 cmbs yellowish sandy clay loam 60+ cmbs very hard yellow brown clay loam

Figure 7 is a photo of one of the shovel tests excavated on the access road.



Figure 7. Shovel Test Six after excavation.

Artifacts collected from the archaeological survey are currently stored at Southern Research's laboratory in Waverly Hall, Georgia. After one year the culturally diagnostic materials (stone tools and pottery sherds) and project notes will be curated at the University of Georgia's Archaeological Laboratory in Athens, Georgia.

# **Results Historic Structure Survey**

A search of the Laurens County files at the Historic Preservation Division listed no historic resources within one half mile of the proposed tower. All public roads were driven near the proposed tower searching for historic structures that were not recorded in the Historic Preservation Division files. None were found. A historic soil survey map from 1915 shows three dwellings plotted in the general vicinity of the access easement and proposed tower (Figure 8). One dwelling appears to be located at the beginning of the access easement at what is now State Route 199. A look at a 1949 aerial photo taken by the Soil Conservation Service (Figure 9) shows what appears to be farm buildings, terraced fields and pasture lands at this location (USDA 1949).

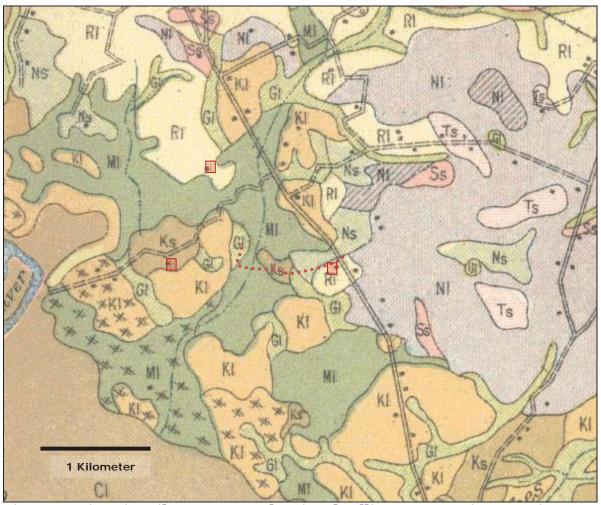


Figure 8. Historic soil survey map showing dwellings near project area in 1915 (USDA 1915). The access easement is show as a red dotted line.



Figure 9. Historic aerial photograph showing farm buildings in 1949 (USDA 1949).

# **Archaeological Survey Results**

The online records at the Georgia Natural Archaeological and Historic GIS web site showed no previously recorded archaeological sites within one half mile of the proposed tower. The subsequent field survey in July 2015 discovered three previously unrecorded Native American archaeological sites (9Ls335, 9Ls336 and 9Ls337) along the proposed access road. Their locations are shown in Figure 10. The limits of these sites are unknown as we only surveyed the narrow corridor of the existing dirt road where the proposed access easement and tower will be located. It is very likely that delineation of these sites would expand their size.

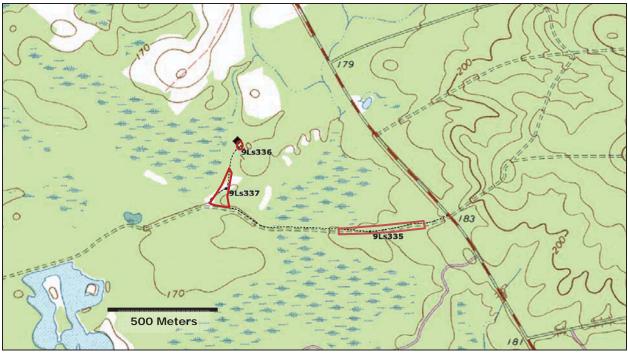


Figure 10. Location of archaeological sites along the access road (USGS 1974).

### Site 9Ls335

Artifacts were observed in the existing dirt road bed beginning about 100 meters from State Route 199 (Figures 11 and 12). Three pieces of chert debitage and one chipped stone tool were observed spread over a length of nearly 400 meters. Mid twentieth century historic artifacts including brick fragments, glass and refined earthenware sherds were also observed. The historic artifacts may have originated from the buildings seen on the 1949 aerial photographs near State Route 199. This area has been greatly modified in the 66 years since that aerial photograph was made and no standing buildings are present today. The existing dirt road was present in 1949 so it has not impacted any features observed on the aerial. Surface find #7 is a base of a Late Archaic projectile point or knife (pp/k) made from coastal plain chert. The three pieces of debitage also observed are coastal plain chert flakes.

Site 9Ls335 is represented by a thin scatter of artifacts probably from a larger site that the dirt road has cut through. The portion of the site in the road bed has lost its integrity and is not recommended as significant and does not meet any criteria for listing on the National Register of Historic Places.

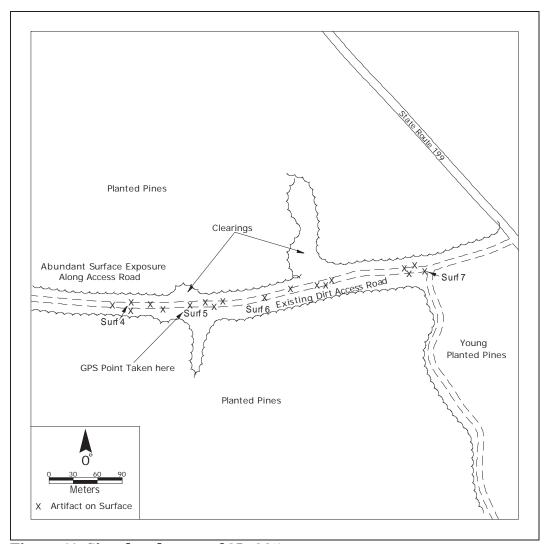


Figure 11. Site sketch map of 9Ls335.



Figure 12. View to the west on site 9Ls335.

### Site 9Ls336

This site was discovered in two positive shovel tests near the proposed tower site (Figures 13 and 14). Shovel Tests #22 had one piece of chert debitage and Shovel Test #23 had two pieces. The artifacts were found from 0 - 45 cm below surface in a sandy loam soil. The ground's surface at this location was obscured by weedy vegetation in the proposed access road and pine forests to either side. Ten sterile shovel tests were excavated to the north within the proposed tower compound and access easement. Three additional sterile tests were dug to the southwest along the proposed access easement. Additional shovel tests at closer intervals were not excavated as per the recommendations of the Eastern Shawnee Tribe of Oklahoma Archaeological Procedures, Section 2-4-6 Radial Shovel Tests.

The minimum site size is 15 meters by 4 meters; however, it is likely that the site extends to the east and south as these locations are slightly higher and more favorable for habitation. Site delineation with additional shovel tests will be necessary to determine the site limits.

The significance of site 9Ls336 cannot be evaluated at this level of investigation. It is not known how big the site is or if it has retained enough integrity to contribute to our understanding of the archaeology of the Oconee River Valley. As proposed, the access easement would cross the archaeological site just 20 meters south of the tower compound.

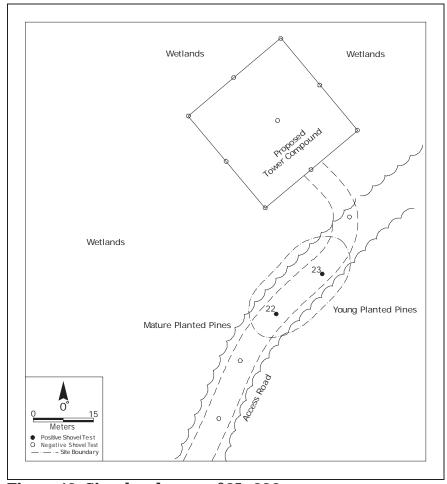


Figure 13. Site sketch map of 9Ls336



Figure 14. View to north of site 9Ls336

#### Site 9Ls337

This site is located along the access easement about 150 meters south of the proposed tower. This portion of the proposed access easement follows an existing dirt road with spotty surface exposure. Shovel tests were dug at 15 meter intervals in the existing road and a few areas of surface exposure were searched. Artifacts were observed on the surface and in 12 out of 18 shovel tests for a distance of 225 meters. Four of the tests yielded five or more artifacts each. Additional shovel tests at closer intervals were not excavated as per the recommendations of the Eastern Shawnee Tribe of Oklahoma Archaeological Procedures, *Section 2-4-6 Radial Shovel Tests*. It is the opinion of the Principal Investigator that site 9Ls337 may be a significant archaeological resource and may meet Criterion D for listing on the Natural Register of Historic Places. Addition shovel testing at this level of investigation (survey) was not warranted.

Figure 15 is a sketch map of the site and Table 1 lists the artifacts found from both the surface and shovel tests. Figure 16 shows a current view of the site and access easement.

Artifacts were recovered from as deep as 50 cm below the surface, although most were in the top 40 cm. The diagnostic artifacts were found between 0- 40 cm below the surface. At about 50-60 cm below surface a very hard soil horizon was encountered which we interpreted as subsoil. The collection of artifacts consists of mainly coastal plain chert debitage (flakes, shatter and flake

fragments); however, two chipped stone tools with stemmed hafts were recovered from Shovel Tests #8 and #11. One is a complete Savannah River type and the other is a haft from the same type. These date to the Late Archaic Period, ca. 3,000 BC to 1,000 BC. Three pottery sherds were recovered from the site, a Late Archaic Period, Stallings Island Plain, fiber tempered sherd from Shovel Test # 11, a Woodland Period, Deptford Simple Stamped sherd (ca. 1,000 BC to AD 300) from the surface in the road (Surface #8) and an un-typed sand tempered sherd from Shovel Test # 5. Figure 17 illustrates the culturally diagnostic artifacts recovered from site 9Ls337.

Table 1. Inventory of Artifacts from 9Ls337.

rabie i. ii	iventory of A	rtifacts from 9	LS337.		
	Chert	Chipped		Pottery	
ST#	Debitage	Stone Tool		Sherd	
3	5				
5	3			1	Sand Tempered Plain
6	5				
7	6				
8		1	Stemmed ppk		
9	7				
10	1				
11		1	Stemmed ppk base	1	Stallings Island Plain
12	1				
13	2				
15	1				
18	1				
Surf 1	1				
Surf 2	1				
Surf 3	1				
Surf 8				1	Deptford Simple Stamped
TOTALS	35	2		3	

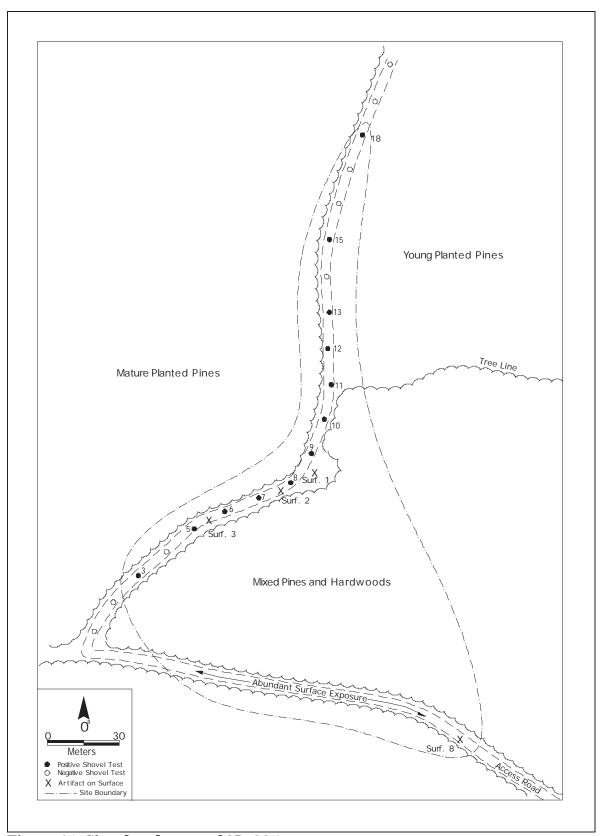


Figure 15. Site sketch map of 9Ls337.



Figure 16. View of 9Ls337 Looking South along Proposed Access Easement. The Pink Flags Mark Positive Shovel Tests.



Figure 17. Artifacts from 9Ls337. Top Row, Late Archaic Period Stemmed Projectile Points/Knives. Bottom Row Pottery Sherds from Left, Deptford Simple Stamped, Stallings Island Plain, Sand Tempered Plain.

Site 9Ls337 measures at least 245 meters north to south and up to 150 meters east to west. The site encompasses Shovel Tests # 3 - #18, Surface # 1 - 3 and Surface # 8. This last artifact find, a Deptford sherd, is included within the site boundaries as it probably originated from where the dirt roads cuts across the slightly elevated terrace to the west of where Shovel Test #3 is located. It is likely that the site is centered on this slightly higher ground. Site delineation with additional shovel tests will be necessary to determine the site limits.

The significance of site 9Ls337 cannot be evaluated at this level of investigation; however, further work would probably provide evidence that it meets Criterion D for listing on the National Register of Historic Places. The site already has yielded culturally diagnostic artifacts in sufficient context to suggest that it has the potential to yield information that is important to the Late Archaic and Woodland periods of this portion of the Oconee River Valley. As proposed, the access easement would cross the archaeological site.

### Conclusion

Three archaeological sites were identified during this investigation along the proposed access easement. All are Native American Indian occupations dating to the Late Archaic and/or Early Woodland Periods. One site, 9Ls335, has some evidence of mid twentieth century occupation albeit in very disturbed context. Two of the sites, 9Ls336 and 9Ls337 may be significant archaeological resources and will require site delineation and evaluation of significance before the effects from construction and maintenance of the proposed tower and access easement can be determined. There are no historic structures within a half mile of the proposed tower.

#### **References Cited**

Smith, Marvin T.

1978 Excavations at Several Woodland and Archaic Camp Workshop Sites in Laurens County, Georgia. University of Georgia Laboratory Series Number 16. Athens

- U. S. Department of Agriculture, USDA
  - 1915 Soil Survey of Laurens County, Georgia, Washington, DC
- U. S. Department of Agriculture, USDA

1949 Aerial Photo KQ 3F 161, Laurens County, Georgia, Washington, DC

- U. S. Department of Interior, USGS
  - 1974 Minter, Georgia, 1:24,000 Quadrangle Map, Reston, Virginia

#### Williams, Mark

1996 Archaeological Investigations at the Sawyer Site (9Ls1). Lamar Institute Report Number 32.

# **Qualifications of Principal Investigator**

## W. Dean Wood

Principal Archaeologist at Southern Research, HPC, Inc since 1993 Registered Professional Archaeologist Past President of the Society for Georgia Archaeology Past President of the Georgia Council of Professional Archaeologists BA Anthropology, West Georgia College (1972) MA Anthropology, University of Georgia (1979) 40+ years of CRM experience

# W. DEAN WOOD, Registered Professional Archaeologist

Principal Archaeologist

Southern Research, Historic Preservation Consultants, Inc. PO Box 250 Ellerslie, Georgia 31807

PO Box 250 Ellerslie, Georgia 706 582 2440 Ext 203

### Education

M.A., 1979, Anthropology, University of Georgia, Athens B.A., 1972, Anthropology, West Georgia College, Carrollton

### **Professional Experience**

1993 - Present	Principal Archaeologist, Southern Research, Ellerslie, Georgia
1991 - 1993	Consultant Program ManagerCultural Resources, Fort Benning, Georgia
1983 - 1991	President and Senior Archaeologist, Southeastern Archeological Services, Inc., Athens, Georgia
1979 - 1983	Senior Archaeologist, Southeastern Wildlife Services, Inc., Athens, Georgia
1977 - 1979	Research Technician III, Archaeologist, Department of Anthropology, University of Georgia, Athens
1976	Archaeologist, Chattahoochee National Forest, U.S. Forest Service, Gainesville, Georgia
1976	Consulting Archaeologist, Georgia Power Company, Wallace Dam Project
1973 - 1975	Research Technician I, Archaeologist, Department of Anthropology, University of Georgia, Athens
1972	Governor's Internship with Georgia Historical Commission, Office of the State Archaeologist, West Georgia College, Carrollton

Mr. Wood has 40 years of experience in historic preservation in the Southeastern U.S. He has conducted archaeological surveys and excavated both prehistoric and historic archaeological sites for the municipal governments, state and federal agencies. He has written numerous cultural resource reports and has extensive administrative experience in cultural resource management.

### **Professional Affiliations**

Society for Georgia Archaeology (President 1986-1988; VP 1984-1986)
Chattahoochee Indian Heritage (Board of Directors 1993-2002; VP 1998-2002)
Georgia Council of Professional Archaeologists (President 2006 to 2008; Board of Directors 1990-1991; VP 1994-1996)
LAMAR Institute (Board of Directors 1985-2002)
Register of Professional Archaeologist
Southeastern Archaeological Conference
Society for Historical Archaeology
Society for American Archaeology
Society for Industrial Archaeology

# **HPD Research File Checklist**

For Cellular Tower Project Consultants

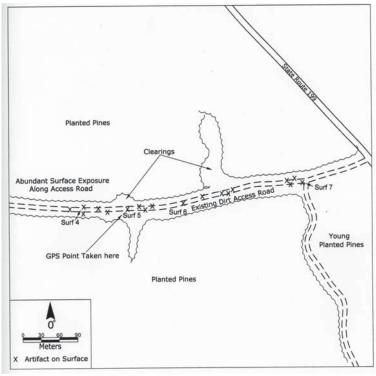
Please fill out and check off the following form, which will allow HPD to better evaluate and review your cell tower project (Form 620 or 621). Attach this to your project submission packet or cover letter.

Name and Title_Matthew D. Wood, Staff Archaeologist
Company Southern Research, Historic Preservation Consultants, Inc.
Cell Tower Address (include city and county) 1766 Old River Rd  East Dublin, GA 31027 (Laurens County)
Date Research was compiled at HPD July 7, 2015
Please check off that you have researched the project site and APE in the following locations (you may need to attach your findings from these records as applicable):
X GA Archaeological Site File (UGA, Athens)
X Historic Resources Survey Files (HPD)
X National Register Files (HPD)
X Identified Sites Files (HPD)
X Centennial Farms Files (HPD)
Topical Files (if applicable, HPD)
Environmental Review Files (if applicable, HPD)
Signature and Date Mathen D. Wood 7 July 2015

# GEORGIA ARCHAEOLOGICAL SITE FORM 1990

Official Site Number: 9Ls335

**Institutional Site Number:** 690-3 Site Name: \_ Map Name: Minter USGS or USNOAA County: Laurens UTM Zone: 17 UTM East: 0 328 357 UTM North: 3 595 570 Owner: Plum Creek Timberlands SE Paper Address: Dublin, Ga meters Width: 4+ Site Length: 390 meters Elevation: + - + 51.8 meters Orientation: 1. N-S 2. E-W 3. NE-SW 4. NW-SE 5. Round 6. Unknown Kind of Investigation: 1. Survey 2. Testing 3. Excavation 4. Documentary 5. Hearsay 6. Unknown 7. Amateur **Standing Architecture: 1. Present** 2. Absent 2. Subsurface 3. Both 4. Only Surface Known Site Nature: 1. Plowzone 5. Unknown 6. Underwater Midden: 1.Present 2.Absent 3.Unknown Features: 1.Present 2.Absent 3.Unknown **Percent Disturbance: 1. None** 2. Greater than 50 3. Less than 50 4. Unknown Type of Site (Mill, Mound, Quarry, Lithic Scatter, etc.) Lithic scatter in road bed. Topography (Ridge, Terrace, etc.): Low terrace Current Vegetation (Woods, Pasture, etc.): Exposed surface of road bed through pine plantations. Additional Information: The artifacts were found in a graded logging road bed so their original locations are probably immediately north and/or south. The road bed itself is very disturbed.





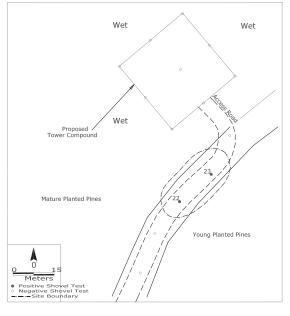
SKETCH MAP (Include sites, roads, streams, landmarks)

OFFICIAL MAP (Xerox of proper map)

# GEORGIA ARCHAEOLOGICAL SITE FORM 1990

Official Site Number: 9Ls336

<b>Institutional Site Num</b>	ber: 690-1	Site Name					
County: Laurens	Map ]	Name: Minter	(USG	S or USNOAA			
UTM Zone: 17	UTM East: 0 327	722	UTM North: 3 595 996				
Owner: Plum Creek Timber							
Site Length: 15 +	meters Width:	15 + <b>mete</b>	rs Elevation:+ - + 51.2	meters			
Orientation: 1. N-S	2. E-W 3. NE	-SW 4. NW-SI	E 5. Round 6. Unk	known			
<b>Kind of Investigation:</b>	1. Survey	2. Testing 3. E	Excavation 4. Docum	ientary			
		6. Unknown 7.	Amateur				
<b>Standing Architecture</b>	: 1. Present	2. Absent					
Site Nature: 1. Plowzone 2. Subsurface 3. Both 4. Only Surface Known							
5. Unknown 6. Underwater							
Midden: 1.Present	2.Absent 3.Unkn	nown Features: 1	.Present 2.Absent	3.Unknown			
Percent Disturbance: 1. None 2. Greater than 50 3. Less than 50 4. Unknown							
Type of Site (Mill, Mound, Quarry, Lithic Scatter, etc.) Lithic scatter. Chert Debitage in two shovel tests							
Topography (Ridge, Terrace, etc.): Low terrace							
Current Vegetation (Woods, Pasture, etc.): Pine Plantation							
Additional Information: Site may extend to east and southeast which is slightly higher							





SKETCH MAP (Include sites, roads, streams, landmarks)

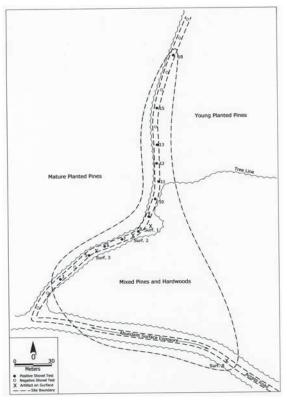
OFFICIAL MAP (Xerox of proper map)

<b>State Site Num</b>	ber: 9Ls336	Institu	itional Site Numb	oer: 690-1
<b>Public Status:</b>			2. National ia Historic Trust	Natural Landmark 5. HABS 6. HAER
	ter Standing: 1. D nmended Eligible	0		nended Ineligible Unknown 7. Removed
National Regist	ter Level of Signif	icance: 1. Loca	2. State	3. National
4. Subm	erged 5. Lake ed 10. Razed			Itivated 3. Eroded troyed 8. Redeposited
Preservation P	rospects: 1. Safe 3. Unkn		Access road for inc	dustrial development
Supervisor: W. Report Title: Ct	D. Wood		uthern Research, HPC, I	nc. <b>Date:</b> 21 July 2015 s Tower, Laurens County, Georgia
Other Reports:	·			
Artifacts Collection	cted: Coastal Plain che	rt - 3 debitage		
Location of Co Location of Fie Private Collect		tesearch, HPC, Inc., Wa	verly Hall, Georgia	
Name:		_ Address:		
Cultural Period	S: Unknown Prehistoric	CULTURAL A	FFINITY	
Phase: Unknown F	Prehistoric			
Date	FORM Name		N AND REVISIO	N stitutional Affiliation
10 August 2015	WDW			Southern Research, HPC, Inc.

#### GEORGIA ARCHAEOLOGICAL SITE FORM

Official Site Number: 9Ls337

<b>Institutional Site Number:</b> 690	2	Site Name:	
County: Laurens	Map Name: <u> </u>	inter	USGS or USNOAA
County: Laurens UTM Zone: 17 UTM	East: 0 327 611	UTM Nort	h: 3 595 793
Owner: Plum Creek Timberlands SE Pa	per Addr	ess: Dublin, Ga	
Site Length: 225 met	ers Width: 175 +	meters Elevatio	n:+ - <u>+ 51.8</u> meters
Orientation 1. N-S 2. E-V	3. NE-SW	4. NW-SE 5. Roun	d 6. Unknown
Kind of Investigation: 1. Sur	vey 2. Testing	g 3. Excavation	4. Documentary
		own 7. Amateur	
<b>Standing Architecture: 1. Pr</b>	esent 2. Abso	ent	
Site Nature: 1. Plowzone	2. Subsurface	3. Both 4. Only Sur	face Known
5. Unknown	6. Underwater		
Midden: 1.Present 2.Absen	t 3.Unknown F	<b>Teatures: 1.Present</b>	2.Absent 3.Unknown
<b>Percent Disturbance: 1. None</b>	2. Greater than	50 3. Less than 5	50 4.Unknown
Type of Site (Mill, Mound, Qu	arry, Lithic Scatter	; etc.) Lithic and sherd scatte	r.
Topography (Ridge, Terrace,	etc.): Low terrace		
<b>Current Vegetation (Woods, F</b>	asture, etc.): Pine Pla	antation	
Additional Information: Site ma	y extend to east and south		





SKETCH MAP (Include sites, roads, streams, landmarks)

OFFICIAL MAP (Xerox of proper map)

### PCT SE PAPER TOWER, LAURENS COUNTY, GEORGIA ADDITIONAL ARCHAEOLOGICAL ASSESSMENT LETTER REPORT



By: Sarah Stephens, MA, RPA
Tower Engineering Professionals, Inc.
326 Tryon Road
Raleigh, NC 27603-3530

October 13, 2015

Tower Engineering Professionals, Inc. (TEP) is assisting in the development of a 150-ft (155-ft with appurtenances) AGL Monopole Communications Tower southeast of the City of Dublin, Laurens County, Georgia. The proposed PCT SE Paper tower facility will be located on the northwestern portion of an approximately 3,303.36-acre parcel. Access to the site will be provided by a proposed 30-ft wide ingressegress & utility easement, which will proceed west from a portion of S Hwy 199, along an existing earthen/gravel access drive for approximately 0.75-miles before turning northeast and continuing approximately 0.203-miles along a portion of an existing two-track and earthen access drive, and continuing approximately 35-ft through a portion of an undeveloped forested area until reaching the proposed 100-ft x 100-ft American Towers LLC compound lease area. The proposed action area consists of the aforementioned tower compound lease area and proposed ingress-egress & utility easement, along with an additional 30-ft buffer surrounding the proposed tower compound lease area (**Figures 1 and 2**).

The proposed project area was surveyed in July, 2015 by Southern Research Historic Preservation Consultants (Wood 2015). During the survey three newly recorded archaeological sites were identified (**Figure 3**). Two sites, 9Ls336 and 9Ls337, were recommended for further work to determine their eligibility for listing in the National Register of Historic Places (NRHP). The archaeologists were unable to provide soil information for the sites or identify what stratums contained artifacts. In order to better understand sites 9Ls336 and 9Ls337, additional archaeological investigations were performed to determine the soil stratigraphy and integrity of the sites.

On September 1, 2015 TEP archaeologist Sarah Stephens conducted the additional archaeological assessment of 9Ls336 and 9Ls337, to meet the requirements of Section 106 of the National Preservation Act (NHPA) and the Federal Communications Commission (FCC) Nationwide Programmatic Agreement of 5 October 2004. This letter report summarizes the results of TEP's investigations.

#### **Environmental Setting**

At the time of the current investigations, the proposed ingress-egress & utility easement was occupied by an existing earthen road in the woods. The project is located at the edge of the Oconee River floodplain, with wetlands to the east and west of sites 9Ls336 and 9Ls337. According to the USDA Web Soil Survey of Laurens County, GA, the proposed ingress-egress & utility easement's soil consist of Clarendon loamy sand and Fuquay loamy sand (**Table 1**). The typical soil profile for Clarendon loamy sand is described as 12 inches of loamy sand followed by sandy clay loam. Fuquay loamy sand soil profile is listed as 24 inches of loamy sand over sandy clay loam.

Table 1: Project Area Soils

Soil Name	Code	Slope	Drainage	Location
Clarendon loamy sand	CnA	0-2%	Moderately well drained	Flats
Fuquay loamy sand	FuB	0-5%	Well drained	Interfluves

#### **Cultural Overview**

Prehistoric Georgia is divided into five cultural periods: Pre-Clovis, Paleoindian, Archaic, Woodland, and Mississippian (**Table 2**). Since the sites in the project area appear to date to the Archaic and Woodland periods, a regional overview of these cultures is provided below.

Table 2. Prehistoric Cultural Periods in Georgia

Cultural Period	Date
Pre-Clovis	? - 10,000  B.C.
Paleoindian	
Early	10,000-9,000 B.C.
Middle/Late	9,000-8,000 B.C.
Archaic	
Early	8,000-6,000 B.C.
Middle	6,000-2,000 B.C.
Late	2,000-500 B.C.
Woodland	
Early	500 B.CA.D. 200
Middle/Late	A.D. 200-1000
Mississippian	A.D. 1000-1500s

The Early Archaic period represents a shift from big game hunting to more comprehensive subsistence strategies of intensive hunting and gathering. Projectile point types during this time include Hardaway-Dalton, Palmer, and Kirk. Social units consisted of small family groups who typically gathered annually in the fall during a time of plentiful food supplies (Anderson and Hanson 1988). These subsistence and settlement strategies continued during the Middle Archaic, which saw warmer climates. Projectile points associated with this period include Guilford, Morrow Mountain, and Stanly (Coe 1964).

The Late Archaic period saw a decrease in temperatures and a rich costal environment (Bense 1994). Site types inland consisted of procurement camps, while on the coast large shell middens and possible permanent villages could be found (Stoltman 1974). Stemmed projectile points, such as the Savannah River type, are typically associated with the Late Archaic. Ceramics began to appear towards the end of the Archaic period with Stallings pottery being diagnostic of the late Late Archaic/Early Woodland transition. This pottery type is characterized by its Spanish moss fiber temper (Simpkins and Scoville 1981) with decorations including punctuations, finger pinching, and incising.

The Early Woodland period is marked by the beginning of this fiber-tempered ceramic around 3000 B.C. (Tinkley 1990). Settlement and subsistence strategies during this period appear to reflect a focus on seasonal resources, such as riverine and estuarine resources during the fall/winter and inland resources in the late winter/spring (Trinkley 1990). Deptford (800 B.C.-A.D. 500) pottery follows the Stallings series. Deptford occurs in the late Early Woodland period and continues into the Middle Woodland period. This pottery type is characterized by fine coarse sandy temper with plain, check stamped, simple stamped, cord marked, geometric stamped, and complicated stamped motifs (Williams 1968).

Swift Creek pottery (A.D. 100-750) is also found throughout Georgia during the Middle to Late Woodland period (Stephenson et al. 2002). This ceramic type is characterized by plain grit or sand-temper with plain or complicated stamped decoration (Kelly 1938). The Swift Creek culture is associated with mound-building as well as hunter-gatherer subsistence. Towards the end of the Late Woodland period a shift towards more agricultural based societies with collective beliefs occurs, leading to the beginning of the Mississippian period.

#### **Previously Recorded Cultural Resources**

A review of records on file at the Historic Preservation Division in Stockbridge and the online files of the Georgia Natural, Archaeological and Historic Resources GIS (GNAHRGIS) was previously conducted in July by Southern Research Historic Preservation Consultants to identify archaeology sites within 0.50-mile radius of the project area (Wood 2015). No sites were identified, however Wood's (2015) survey recorded three prehistoric sites (9Ls335, 9Ls336, and 9Ls337) in the current project area. Sites 9Ls335 and 9Ls336 are undiagnostic lithic scatters while 9LS337 is a ceramic and lithic scatter. Further information on 9Ls336 and 9Ls337 is provided under **Investigation Results** in this report.

#### **Field Methods**

Since previous shovel testing at 15 meter intervals was performed at archaeological sites 9Ls336 and 9Ls337, only a limited number of shovel tests were excavated during the current investigations to identify soil stratigraphy and integrity at the sites. Although the site boundaries probably extend outside the current project area, testing was only performed inside the project limits to assess the impacts the proposed PCT SE tower compound and ingress-egress & utility easement may have on historic properties.

Because of 9Ls336 small size, only one shovel test was placed between the two previously positive shovel tests. Two shovel tests were excavated at site 9LS337 to determine any soil variation at the site. Additional shovel tests were not excavated in order to minimize site disturbance. Shovel tests measured approximately 40 centimeters in diameter and were excavated by stratum in 10 cm intervals until sterile subsoil. Soils were screened through 1/4" hardware mesh. All shovel tests were recorded on field forms and their locations were marked with a GPS.

#### **Laboratory Analysis and Curation**

All recovered artifacts were transported to TEP's Raleigh office where they were washed, cataloged, and analyzed. Analysis included cleaning, identifying, cataloging, and curation preparation of all artifacts to the standards required by the *Georgia Standards and Guidelines for Archaeological Surveys* (Revised April, 2014). Analysis focused on raw material, reduction stage, and type.

TEP will provide temporary storage for all records and artifacts, which will be turned over to the University of Georgia's Archaeological Laboratory in Athens, Georgia for final curation. Artifacts, photographs, and notes will be prepared using the *Georgia Standards and Guidelines for Archaeological Surveys* (Revised April, 2014) standards.

#### National Register of Historic Places (NRHP)

In order for a site, building, etc. to be listed on the NRHP they must meet the criteria of the Department of the Interior Regulations 36 CFR Part 60: National Register of Historic Places. Historic resource can be defined as significant if they "possess integrity of location, design, setting, materials, workmanship, feeling, and association" and if they:

- A) are associated with events that made a significant contribution to the broad pattern of history;
- B) are associated with the lives of persons significant in the past;
- C) embody the distinctive characteristics of a type, period, or method of construction, or represent the work of a master, possess high artistic values, or represent a significant and distinguishable entity whose components may lack individual distinction; or,
- D) have yielded, or may be likely to yield, information important in prehistory or history.

Archaeological sites are generally evaluated under Criteria D for their information potential. According to the National Park Service *Guideline for Evaluating and Registering Archaeological Properties*, archaeological sites eligible under Criteria D must meet two basic requirements: "The property must have, or have had, information that can contribute to our understanding of human history of any period; The information must be considered important".

#### **Investigation Results**

#### 9Ls336

Site 9Ls336 was identified by Southern Research Historic Preservation Consultants (HPC) in July, 2015 as a small undiagnostic lithic scatter along an existing two-track and earthen access drive within the proposed ingress-egress & utility easement (Wood 2015). Artifacts were recovered from two shovel tests at 0-45 centimeters below surface (cmbs), but limited stratigraphic information was gathered. The minimum site size is 15 x 4 meters, however the site was not delineated outside of the current project area.

TEP excavated one shovel test, TEP 1, at site 9Ls336. The shovel test was placed between Southern Research HPC's shovel tests numbers 22 and 23 (**Figure 4**). TEP identified three soil stratums in the shovel test and two chert flakes were recovered in Stratum II (**Figure 5** and **Table 3**). Additional surface investigations were also conducted and revealed no surface artifacts.

Stratum	Depth	Color	Texture	Artifacts
	(cmbs)			
I	0-13	Very dark brown	Sandy loam	None
II	13-35	Brown	Compact sandy loam with gravel	2 flakes at 25-35 cmbs
III	35-45	Dark yellowish brown	Compact clay subsoil	None

Table 3: 9LS336 TEP Shovel Test 1 Data

Although site 9Ls336 appears to maintain integrity, the site lacks artifact diversity, is small in size, and is a common site type. The site may extend outside of the proposed ingress-egress & utility easement, but our office recommends the portion of 9Ls336 in the current project area as not eligible for listing in the NRHP. Further work to identify the site boundaries would be necessary if ground disturbance were to occur outside of the proposed project area.

#### 9Ls337

Site 9Ls337 is a prehistoric lithic and ceramic scatter along an existing two-track and earthen access drive within the proposed ingress-egress & utility easement. The site was identified by Southern Research HPC in July, 2015 and their investigations resulted in the recovery of 35 pieces of chert debitage, 2 chipped stone tools, and 3 ceramics sherds (Wood 2015). Diagnostic artifacts included a Savannah River type projectile point, Stallings Island Plain sherd, and a Deptford Simple Stamped sherd. These artifacts date to

the Late Archaic and Woodland periods. Artifacts were found on the surface and from as deep as 50 cmbs in shovel tests, but limited stratigraphic information was gathered (Wood 2015). Site delineation was limited to the proposed ingress-egress & utility easement and the site most likely extends outside the current project area.

Two shovel tests, TEP 2 and 3, were excavated by TEP at site 9Ls337 (**Figure 6**). TEP shovel test 2 was placed between Southern Research HPC's previously excavated shovel tests 11 and 12 to identify soil stratigraphy in the northern portion of the site. TEP shovel test 3 was excavated between previous shovel tests 4 and 5 to examine soil stratigraphy in the southern portion of the site. These locations targeted areas near shovel tests that previously produced diagnostic artifacts in hopes of recovering additional diagnostics and identifying their vertical locations to determine site integrity. Results of TEP shovel tests 2 and 3 are located below in **Table 4**.

TEP	Stratum	Depth	Color	Texture	Artifacts
Shovel		(cmbs)			
Test #					
2	I	0-10	Very dark brown	Sandy loam	1 flake, 0-2 cmbs
	II	10-60	Yellowish brown	Compact sandy loam with gravel	None
	III	60-70	Dark yellowish brown	Compact sandy clay loam	None
				subsoil	
3	I	0-20	Very dark brown	Sandy loam	1 flake, 0-10 cmbs
	II	20-60	Yellowish brown	Compact sandy loam with gravel	4 flakes, 20-40 cmbs
	III	60-70	Dark yellowish brown	Compact sandy clay loam	None
				subsoil	

Table 4: 9LS337 TEP Shovel Test Data

Artifacts were found in Stratums I and II (**Figure 7 and Table 4**). All of the artifacts recovered are tertiary chert flakes. Surface artifacts, primarily flakes, were also observed within the previously defined site boundaries but were not collected. TEP shovel tests and surface investigations revealed that Stratum I has previously been disturbed by road grading. Dirt push piles appear along the two-track dirt road and the depth of Stratum I varies throughout the site (**Table 4 and Figure 8**). Shovel tests also revealed that Stratum II, which contained artifacts, appears to be intact (**Figure 7**). Unfortunately, no temporally diagnostic artifacts or ceramics were recovered during the current investigations.

Based on TEP's and Wood's investigations, 9Ls337 appears to have relatively intact stratigraphy below Stratum I. Site 9Ls337 may be able to address research questions regarding Late Archaic and Woodland period lifeways and land use in this region. Therefore, we recommend that further work would be necessary to determine if 9Ls337 is eligible for listing in the NRHP.

#### **Summary and Conclusions**

On September 1, 2015, TEP conducted additional archaeological investigation at the proposed PCT SE Paper Tower site near the City of Dublin, Laurens County, Georgia. Archaeological sites 9Ls336 and 9Ls337 were revisited and assessed for the NRHP eligibility. Based on the current and July 2015 investigations, we recommend site 9Ls336 not eligible for the NRHP and 9Ls337's NRHP eligibility remains unknown. TEP recommends that site 9Ls337 be avoided and preserved in place. If avoidance is not possible, then a Phase II archaeological investigation is recommended to assess 9Ls337's NRHP eligibility before ground disturbing activities occur.

#### **References Cited**

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1988 Early Archaic Settlement in the Southeastern United States: A Case Study from the Savannah River Valley. *American Antiquity* 53:262-286.

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2014 *Georgia Standards and Guidelines for Archaeological Surveys.* http://georgia-archaeology.org/GCPA/standards\_for\_survey/ Access 3 September 2015.

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1974 Groton Plantation: An Archaeological Study of a South Carolina Locality. Monograph of the Peabody Museum, No. 1, Cambridge.

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1990 An Archaeological Context for the South Carolina Woodland Period. Research Series 22, Chicora Foundation, Columbia.

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Peabody Museum of Archaeology and Ethnology 58.

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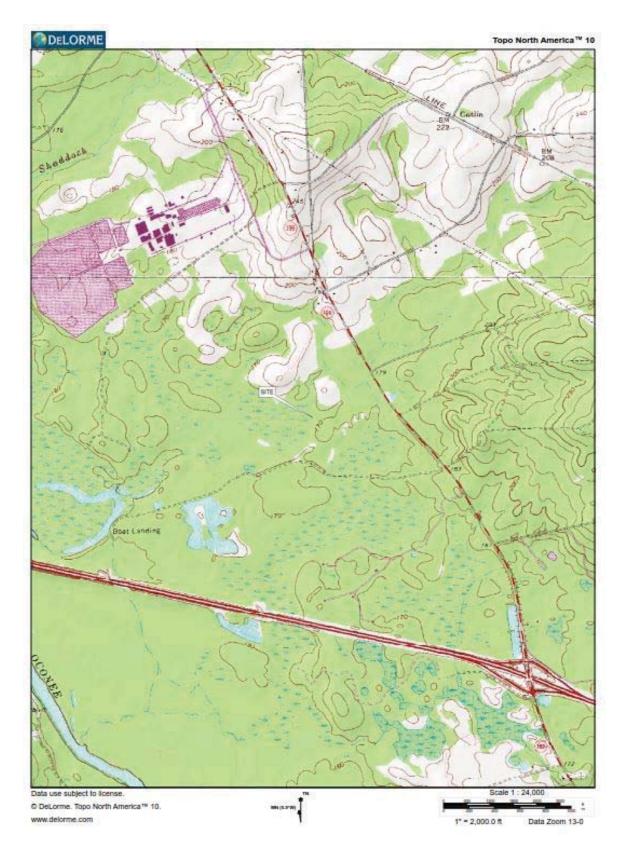


Figure 1: Project Location (Minter, GA USGC 7.5-Minute Topographic Quadrangle).



Figure 2: Aerial Photograph of Project Area.

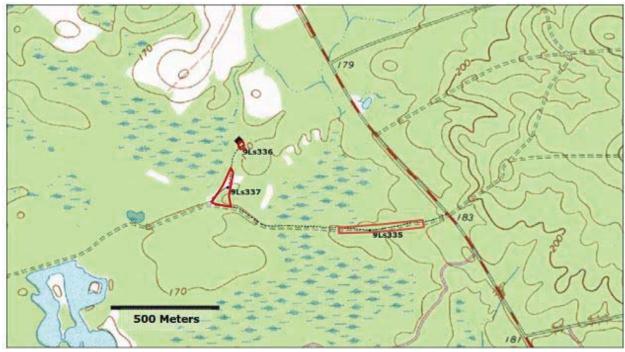


Figure 3: Archaeology Sites in Project Area (Image from Wood 2015).

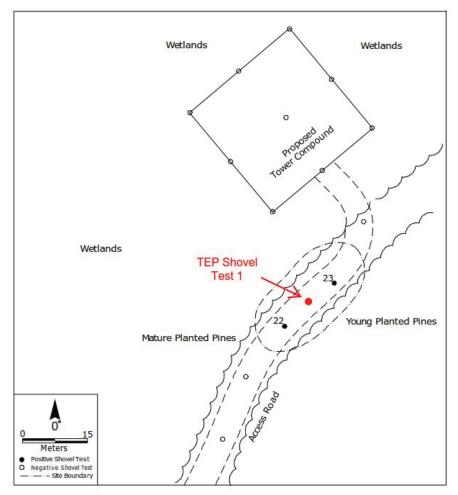


Figure 4: Wood (2015) 9Ls336 Site Map with TEP Shovel Test.



Figure 5: Soil Profile of TEP Shovel Test 1.

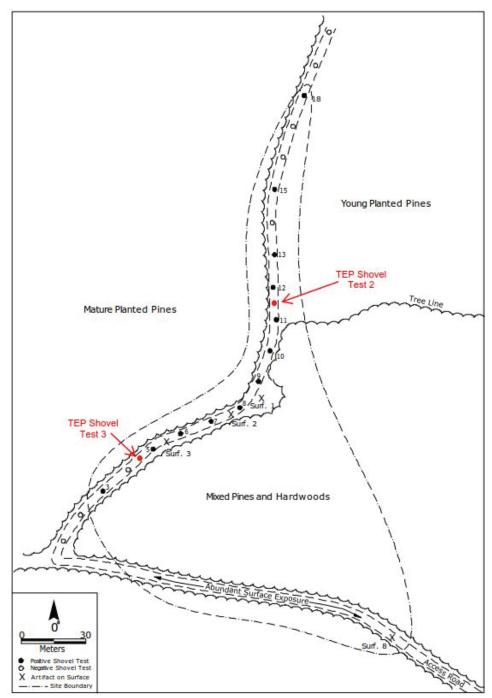


Figure 6: Wood (2015) 9Ls337 Site Map with TEP Shovel Tests.



Figure 7: Soil Profile of TEP Shovel Test 2.



Figure 8: View northwest of pushed dirt pile along the road at 9LS337.



#### SARAH STEPHENS, RPA

#### **Cultural Resources Division Manager**

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#### **PROFILE**

Sarah Stephens is a Registered Professional Archaeologist (RPA) with professional experience in Section 106, Section 4(f), cultural resource management, National Register of Historic Places, report writing, GIS, archaeological and historic architectural surveys, geophysics, prehistoric ceramic analysis, along with curation. Ms. Stephens has conducted research and fieldwork in 15 states for a variety of clients including Federal Communication Commission, South Carolina Department of Transportation, U.S. Forestry Service, and a variety of other county and state governments and private agencies.

#### **EDUCATION**

May 2010 University of Mississippi, Oxford, MS

M.A. in Anthropology

Thesis: "The South Cape Site of Cape Girardeau, Missouri"

May 2008 Southeast Missouri State University, Cape Girardeau, MO

B.S. in Historic Preservation, Minor in Archaeology

Thesis: "A Social History of the Hunter Log Cabin"

#### PROFESSIONAL TRAINING

November 2014 Society of American Archaeology Online Seminar, Online

**Proposal Writing for Cultural Resources Management** 

November 2014 National Preservation Institute Seminar, Atlanta, GA

Section 4(f) Compliance for Historic Properties

April 2014 National Preservation Institute Seminar, Austin, TX

**GIS: Practical Applications for Cultural Resource Projects** 

March 2014 National Preservation Institute Seminar, Atlanta, GA

**Section 106: Agreement Documents** 

April 2013 National Preservation Institute Seminar, Atlanta, GA

Section 106: An Introduction

#### **EMPLOYMENT**

Aug. 2015- Present Tower Engineering Professionals, Inc., Raleigh, NC.

**Cultural Resources Division Manager** 

Jan. 2013 – Jul. 2015 South Carolina State Historic Preservation Office, Columbia, SC.

Review Coordinator for Transportation Projects & GIS Coordinator

Jun.-Dec. 2012 URS, Burlington, NJ Office

**Crew Chief** 

May 2012 TRC, Lanham, MA Office

Field Technician

Mar. 2011- Apr. 2012 New South Associates, Inc., Columbia, SC Office

Staff Archaeologist & Assistant Historian

Oct. 2010-Mar. 2011 New South Associates, Inc., Columbia, SC Office

Field Technician

Aug.-Oct. 2010 John Milner Associates, Inc., Alexandra, VA Office

Field Technician

Jun.-Aug. 2010 Southeast Missouri State University, Cape Girardeau, MO

**Field School Teaching Assistant** 

Oct. 2009- Feb. 2010 Jay K. Johnson, Oxford, MS

Field Technician

May 2007- Jan. 2008 St. Louis Army Corps of Engineers, Mandatory Center of

Expertise for the Curation and Management of Archaeological Collections

Intern

#### **PROJECT EXPERIENCE**

#### 2015-Present Principal Investigator & Field Director

Phase I & Class III Archaeological & Architectural Assessments for Communication Towers in Colorado, Florida, Georgia, North Carolina, South Carolina, Virginia, and West Virginia. Conducted for Federal Communications Commission.

#### 2012 Crew Chief

Phase I Archaeological Survey for the Constitution Pipeline, Pennsylvania and New York.

#### 2012 Field Technician

Phase II Archaeological Investigation in Martinsburg, West Virginia. Conducted for the West Virginia Department of Transportation.

GPR Survey at Fort Donelson, Tennessee. Conducted for the National Park Service.

#### 2012 Field Director

Phase I Archaeological Survey of US15-378 Road Improvements, Sumter County, South Carolina. Conducted for SCDOT.

Phase I Archaeological Survey of Camden Truck Routes, Kershaw County, South Carolina. Conducted for SCDOT.

Phase I Archaeological Survey of Bishopville Bypass Alternative, Lee County, South Carolina. Conducted for SCDOT.

#### 2012 Architectural Historian

Cultural Resource Survey of the Proposed Widening to S-29/South Cashua Drive, Florence County, South Carolina. Conducted for SCDOT.

#### 2011 Assistant Historian

Historic Architectural Survey for US 158 Improvements in Forsyth and Guilford Counties, North Carolina. Conducted for NCDOT.

#### 2011 Field Director

Phase I Archaeological Survey of the Proposed Improvements to Coleman Boulevard, Charleston County, South Carolina. Conducted for SCDOT.

Archaeological Survey for the Coastal Carolina Airport Expansion near New Bern, Craven County, North Carolina. Conducted for the Coastal Carolina Airport Authority.

Phase I Archaeological Survey for SC 90 over CSX and NS Railroad, Newberry, South Carolina. Conducted for SCDOT.

Phase I Archaeological Survey of SC 51, Florence County, South Carolina. Conducted for SCDOT.

#### 2011 Field Technician

Little Orleans, Maryland GPR survey and Rose Hill in Winchester, Virginia magnetometer survey for Elizabeth Anderson Comer/Archaeology.

Phase I Archaeological Survey on Wallops Island, Virginia. Conducted for NASA.

Phase II Archaeological Investigation at Ft. Stewart, Georgia.

#### 2010-2011 Field Technician

Phase I Archaeological Survey of Ft. Stewart, Georgia.

#### 2010 Field Technician

Phase I Archaeological Survey of the McLeod Plantation, Charleston, South Carolina.

Phase I Archaeological Survey of Ft. Bragg, North Carolina. Conducted for Army Environmental Command.

Phase II Archaeological Investigation of Fort Jackson, Venice, Louisiana.

#### 2010 Field School Teaching Assistant

South Cape Site in Cape Girardeau, MO and Kincaid Mounds in Brookport, IL for Southeast Missouri State University.

#### 2009 Field Technician

Phase I Archaeological Survey for the Golden Triangle Airport, Columbus, Mississippi.

Phase III Data Recovery in Tupelo, Mississippi. Conducted for Mississippi Department of Transportation (MSDOT).

#### **REPORTS AND PUBLICATIONS**

#### TECHNICAL REPORTS

Numerous letter reports for archaeological and architectural assessment for Federal Communication Commission projects in Georgia, Florida, South Carolina, North Carolina, and Virginia, West Virginia.

2015 Multiple Class III Cultural Resources Survey for Federal Communication Commission projects in Colorado.

#### PROFESSIONAL PRESENTATIONS & ARTICLES

- Herman Wiley Ronnenburg, "Material Culture of Breweries (Guide to Historical Artifacts)". Book review published in South Carolina Antiquities, Winter 2014, Volume 46.
- 2014 South Carolina Army National Guard (SCARNG) Panel: The Current State of Rural Household Archaeology in the Southeast: Best Practices. Panelist at the 71<sup>st</sup> Southeastern Archaeology Conference, November 12-15th, Greenville, SC.
- 2013 "Ceramics, Chronology, and Context: The South Cape Site". Published in the Missouri Archaeological Society Quarterly, Volume 30, Number 3.
- 2012 Angela Pulley Hudson, "Creek Paths and Federal Roads: Indians, Settlers, and Slaves and the Making of the South". Book review published in Southeastern Archaeology, Winter 2012, Volume 31, Number 2.
- 2012 Lynne P. Sullivan and Robert C. Mainfort Jr., Editors, "Mississippian Mortuary Practices: Beyond Hierarchy and the Representationist Perspective". Book review published in South Carolina Antiquities, Winter 2012, Volume 44
- 2011 "Revisiting the South Cape Site of Southeast Missouri". Paper presented at the Missouri Archaeological Conference, April 9, Springfield, MO
- 2009 "Examining Past Collections: The South Cape Site of Southeast Missouri". Paper presented at the 63rd Southeastern Archaeological Conference, November 4th–7th, Mobile, AL
- 2009 "Old Collections and New Finds at the South Cape Site, Missouri". Tamira K. Brennan, second author. Paper presented at the Kincaid Field Conference, July 25th, Metropolis, IL
- 2007 "Contextualizing Archival Collections: New York African Burial Ground". Paper presented at the National Great Rivers Research and Education Center Student Symposium, August 1st, Alton, IL

#### OTHER PUBLICATIONS

- 2014 Callawassie Sugar Works, Beaufort County, South Carolina, National Register of Historic Places Nomination Form. Listed May 27, 2014
- 2013 Historical Context for South Carolina Tobacco Barns. SC State Historic Preservation Office
- 2013 Guidelines for Surveying Post-World War II Neighborhoods and Residences, SC State Historic Preservation Office

#### PROFESSIONAL MEMBERSHIPS AND REGISTRATIONS

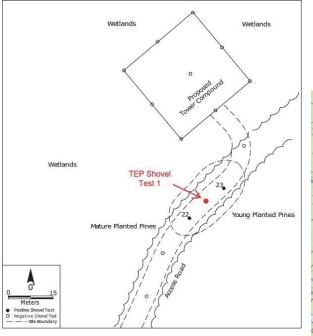
2011- Present	Registered Professional Archaeologist (RPA)
2010- Present	Southeast Archaeological Conference (SEAC)
2011- Present	Council of South Carolina Professional Archaeologists (COSCAPA)
2008- Present	Archaeological Society of Missouri (MAS)
2015- Present	North Carolina Archaeology Society (NCAS)
2012- Present	Archaeological Society of South Carolina (ASSC)
	Interim Vice President (2014-2015)
	Newsletter Editor (2013-2015)

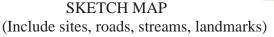
#### GEORGIA ARCHAEOLOGICAL SITE FORM 1990

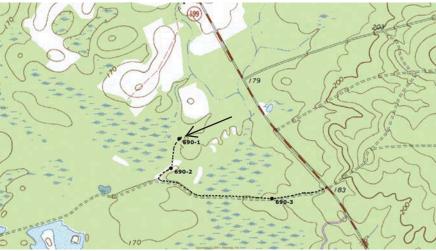
Official Site Number: 9Ls336

**Institutional Site Number:** \_\_\_\_\_ Site Name: \_ Map Name: Minter USGS or USNOAA County: Laurens **UTM East:** 0 327 722 UTM Zone: 17 UTM North: 3 595 996 Owner: Plum Creek Timberlands SE Paper Address: Dublin, Ga \_meters Width:\_15 + Site Length: 15+ meters Elevation:+ - +51.2 meters **Orientation: 1. N-S** 2. E-W 3. NE-SW 4. NW-SE 5. Round 6. Unknown Kind of Investigation: (I. Survey) 4. Documentary 2. Testing 3. Excavation 5. Hearsay 6. Unknown 7. Amateur Standing Architecture: 1. Present\_\_\_ 2. Absent 2. Subsurface Site Nature: 1. Plowzone 3. Both 4. Only Surface Known 5. Unknown 6. Underwater Midden: 1.Present 2.Absent 3.Unknown Features: 1.Present 2.Absent 3.Unknown **Percent Disturbance: 1. None** 2. Greater than 50 3. Less than 50 4. Unknown Type of Site (Mill, Mound, Quarry, Lithic Scatter, etc.) Undiagnostic Lithic scatter. Topography (Ridge, Terrace, etc.): Low terrace Current Vegetation (Woods, Pasture, etc.): Two-track earthen road surrounded by a pine plantation Additional Information: Site previously recorded by Wood in August 2015. The site was not delineated in the east and southeast because of the project area limits. An additional shovel test was added by Tower Engineering Professionals (TEP) in order

to assess the soil stratigraphy at the site. Two chert flakes were recovered between 25-35 cmbs.







**OFFICIAL MAP** (Xerox of proper map)

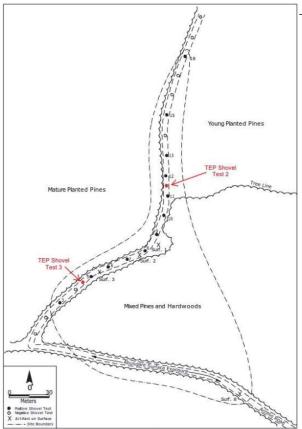
<b>State Site Num</b>	ber: 9Ls336	Institu	ıtional Site Num	ber:
<b>Public Status:</b>		istoric Landmark egister 4. Georg		Natural Landmark 5. HABS 6. HAER
	_	0		mended Ineligible Unknown 7. Removed
National Regist	er Level of Sign	nificance: 1. Loca	l 2. State	3. National
4. Subm	_			altivated 3. Eroded stroyed 8. Redeposited
Preservation Pr	_	e 2. Endangered known	Access & utility e	easement for cell tower development
	rah Stephens		wer Engineering Profes	ssionals <b>Date:</b> 01 September 2015 ological Assessment Letter Report
Other Reports:				
Artifacts Collec	eted: Coastal Pla	in chert - 2 debitage		
Location of Col Location of Fie Private Collecti	ld Notes: same	Engineering Profession	onals, Raleigh, North	n Carolina
Name:		Address:		
Cultural Period	S: Unknown Prehisto	CULTURAL A	AFFINITY	
Phase: Unknown F	Prehistoric			
Date	FOR! Nan	M PREPARATION		ON nstitutional Affiliation
03 September 2015	11411	Sarah Stephens		Tower Engineering Professionals

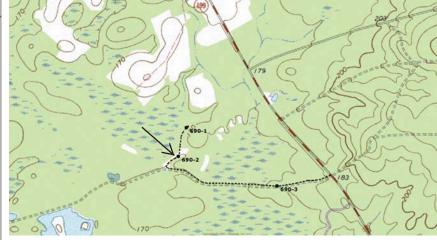
#### GEORGIA ARCHAEOLOGICAL SITE FORM

Official Site Number: 9LS337

<b>Institutional Site Number</b>	er:	Site Name:	
County: Laurens UTM Zone: 17	UTM East: 0 327 611	UT	'M North: 3 595 793
Owner: Plum Creek Timberland	ds SE Paper Ad	dress: Dublin, Ga	
Site Length: 225	meters Width: 175 +	meters	Elevation:+ - <u>+ 51.8</u> meter
Orientation (1. N-S)	2. E-W 3. NE-SW	<b>4. NW-SE</b>	5. Round 6. Unknown
<b>Kind of Investigation:</b>	1. Survey 2. Testi	ng 3. Exca	avation 4. Documentary
	5. Hearsay 6. Unk	nown 7. Am	ateur
<b>Standing Architecture:</b>	1. Present 2. Al	sent	
Site Nature: 1. Plowzon	e 2. Subsurface	3. Both 4. (	Only Surface Known
5. Unknow	n 6. Underwater		
Midden: 1.Present 2.A	Absent 3.Unknown	Features: 1.Pr	esent 2.Absent 3.Unknown
<b>Percent Disturbance: 1.</b>	None 2. Greater tha	an 50 3. Les	ss than 50 4.Unknown
Type of Site (Mill, Moun	d, Quarry, Lithic Scatt	er, etc.) Prehistor	ic lithic and ceramic scatter.
Topography (Ridge, Ter	race, etc.): Low terrace		
<b>Current Vegetation (Wo</b>	ods, Pasture, etc.): Two	-track earthen road	I surrounded by a pine plantation.
	, , , ,		
Additional Information:	Site was revisited to identif	y the site's soil stra	tigraphy. Two additional shovel tests

were placed at the site, which resulted in the recovery of chert flakes from 0-40 cmbs.





SKETCH MAP (Include sites, roads, streams, landmarks)

OFFICIAL MAP (Xerox of proper map)

<b>State Site Num</b>	ber: 9Ls337	Institution	nal Site Numb	er:	
<b>Public Status:</b>		storic Landmark gister 4. Georgia H			ark 6. HAER
		Determined Eligible e 4. Nominated 5			
National Regist	ter Level of Signi	ificance: 1. Local	2. State	3. National	
4. Subm	_	Two): 1. Undistue Flooded 6. Vandal			
Preservation P	rospects: 1. Safe 3. Unk	2. Endangered by nown	Access & utilities	s easement for a c	ell tower
	rah Stephens	Affiliation: Tower E	Engineering Profess		
Other Reports:					
Artifacts Collec	cted: 6 Coastal Pla	in chert flakes			
Location of Col Location of Fie Private Collect	ld Notes: same	Engineering Professionals	s, Raleigh, North (	Carolina	
Name:		Address:			
Cultural Period	$1_{ m S^*}$ Late Archaic and Ea	CULTURAL AFF	INITY		
Phase: Stallings Is	land and Deptford				
Date	FORM Name	I PREPARATION A		N Stitutional Affili	ation
03 September 2015		Sarah Stephens	1118	Tower Engineering	



# TELECOM DEVELOPMENT SERVICES LLC

SITE NAME:

# PCT SE PAPER GA

SITE NUMBER: 201440

PROJECT DESCRIPTION

# 150' MONOPOLE RAWLAND

TOTAL TOWER HEIGHT INCLUDING THE APURTENANCE - 155' AGL

LOCATION MAP	Old River Red
VICINTY MAP	Adjusted of Adjust

N MAP	Old Filmer, and
LOCATION MAP	SITE
	Ustra Stories

DRIVING DIRECTIONS FROM ATLANTA:	
Take I-75 S/I-85 S	67.9 mi
Continue to follow I-75 S	
Keep left at the fork to stay on I-75 S	12.7 mi
Use the left lane to take exit 165 for I-16 E toward Jim L Gillis Hwy/Savannah	0.6 mi
Continue onto I-16 E	57.1 mi
Take exit 58 for GA-199 toward Dublin E	0.3 mi
Turn left onto GA-199 N	1.2 mi
Towns laft and also well has on the clash	1 00

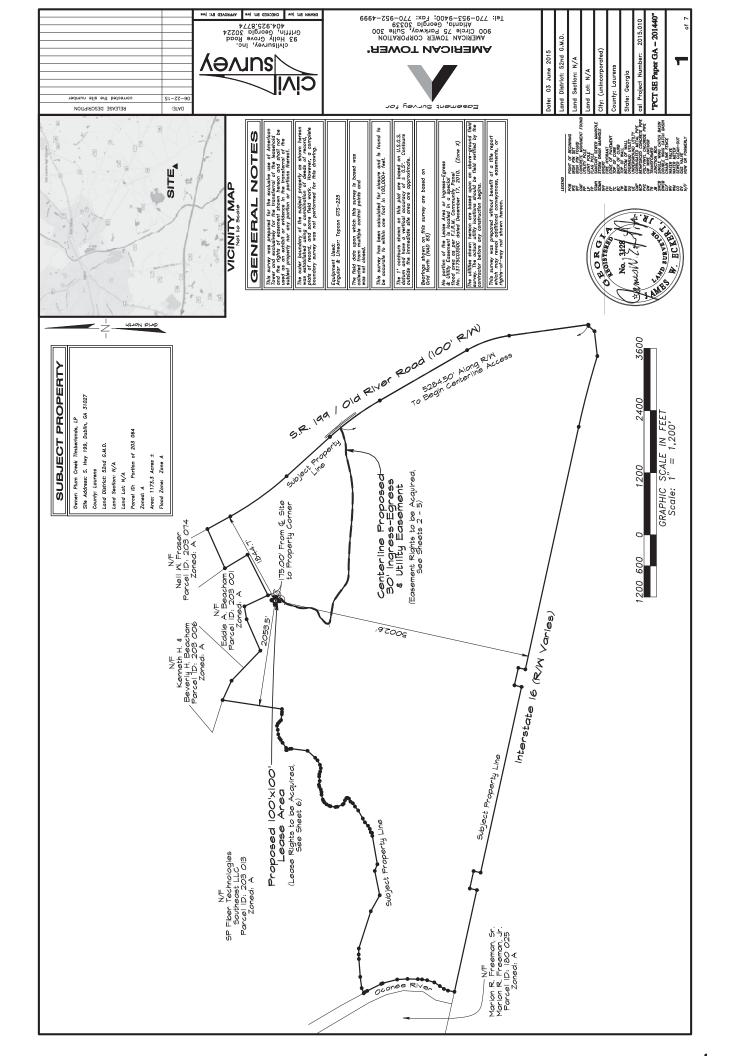


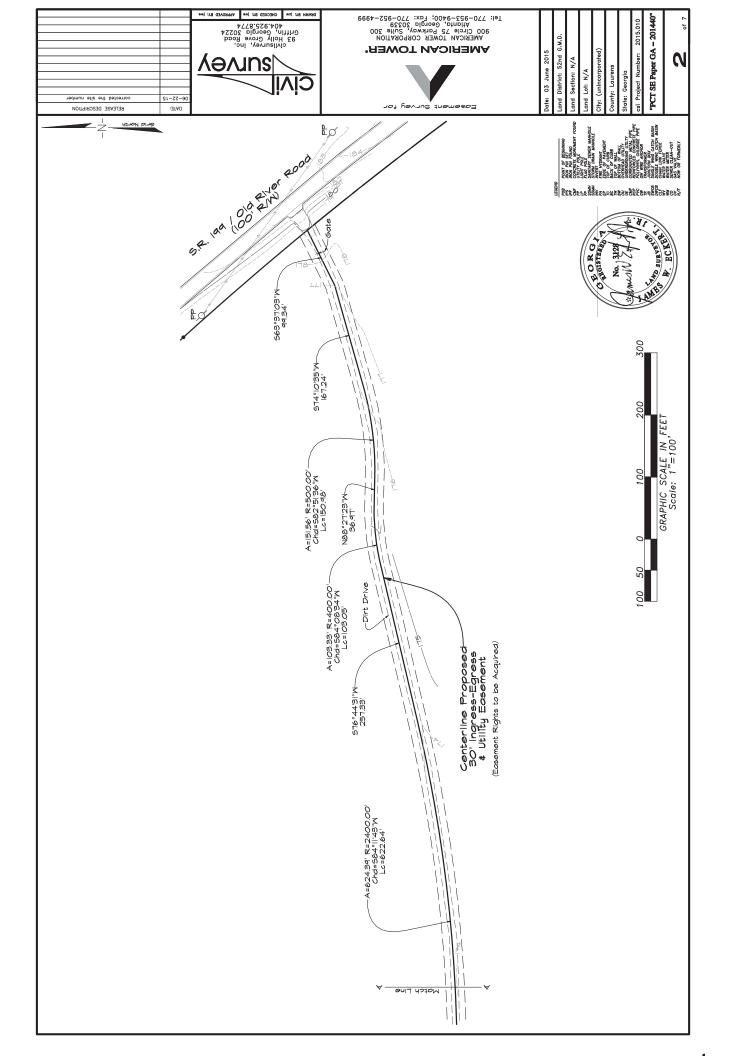
PAPER GA PCT SE

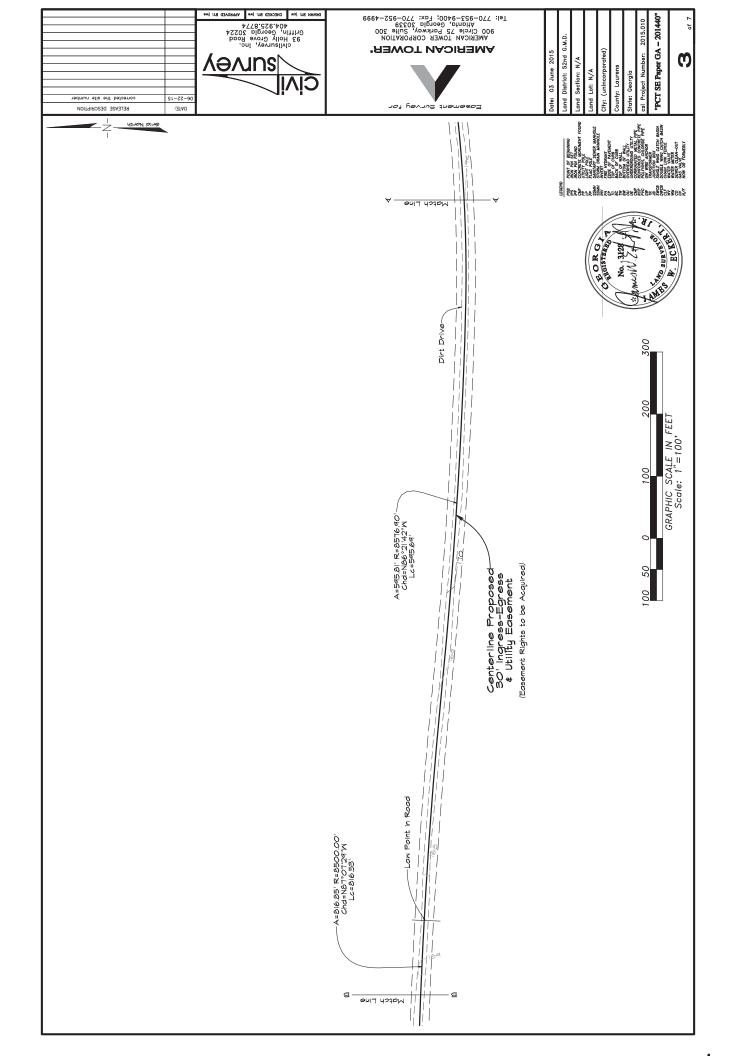
AMERICAN TOWER

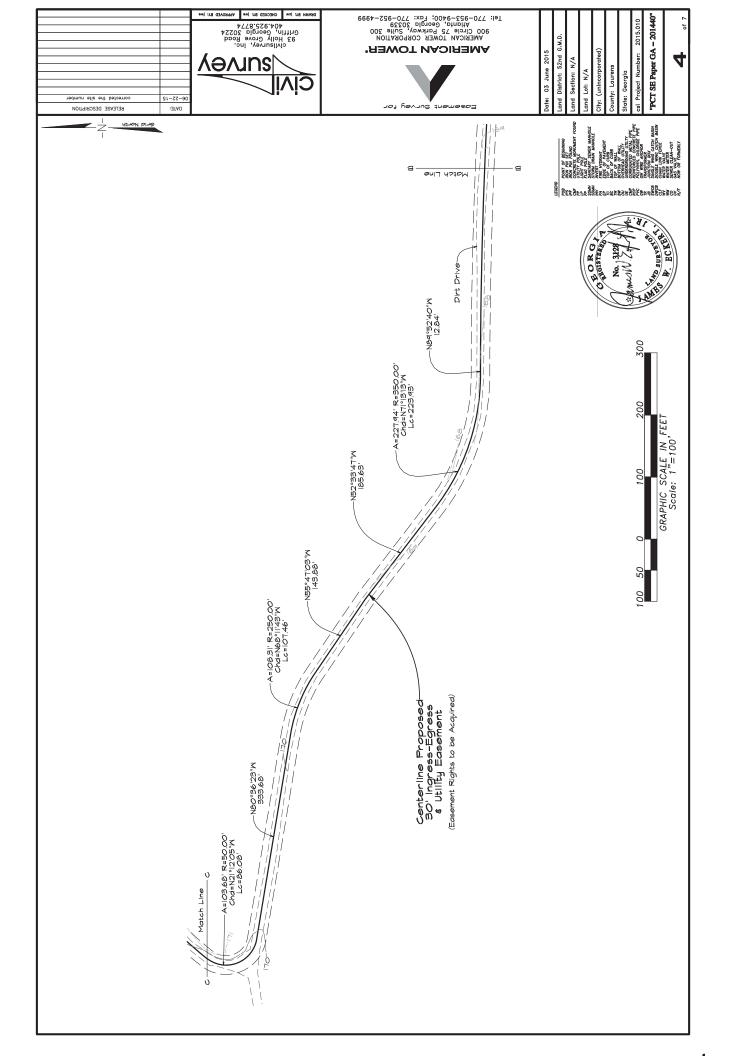
GREENFIELD

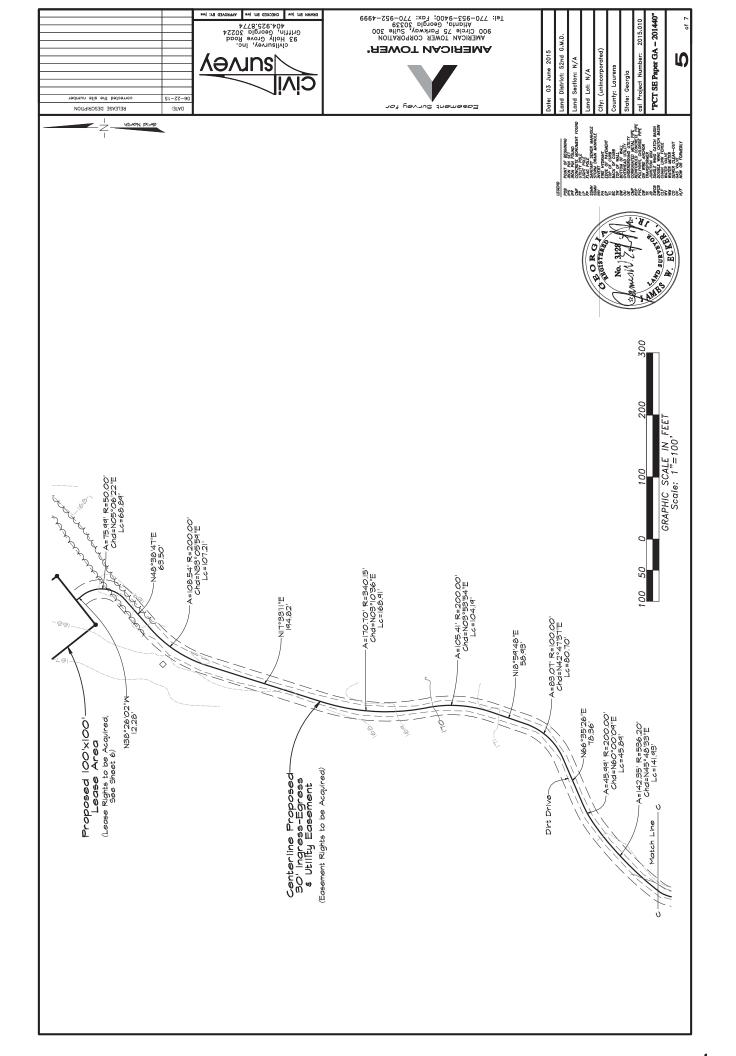
TITLE SHEET

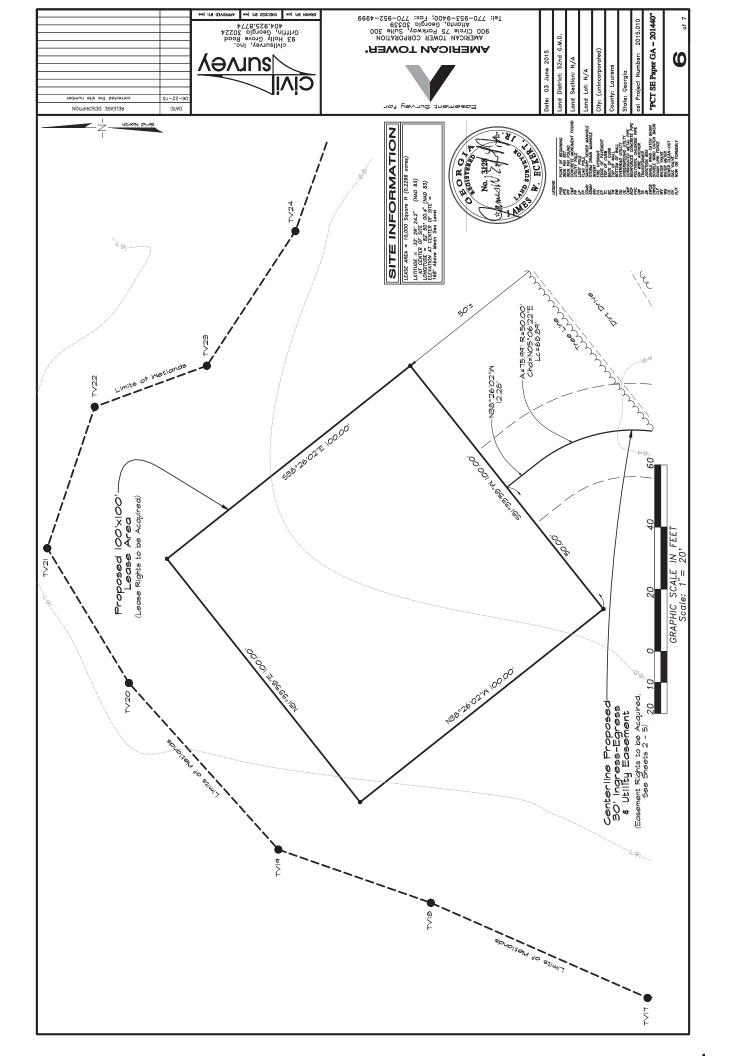












# SUBJECT PROPERTY

All that tract or parcel of land lying and being in the 52nd G.M.D., Laurens County, Georgia, and being more particularly described as containing 1173.3 acres, more or less, and being an portion of Tax Parcel ID 230 G64 and being bounded on the east by State Highway 199, on the south by Interstate 16, and on the west by the Oconee River.

## LEASE AREA

All that tract or parcel of land lying and being in the 52nd G.M.D., Laurens County, Georgia, and being more particularly described as follows:

To find the Point of Beginning, COMMENCE at a point located on the western right of way of state differed to the print of being S2845, feet, more or less, as measured along said right of way in a northearly direction from the intersection of said right of way with the northern right of way of interstate 16.

There so with 74(10)28 west, 167.24 feet for a point, 337037 west, 99.34 feet to a point; There so with 74(10)28 west, 167.24 feet for apoint; There so with 74(10)28 west, 167.24 feet for a point; There so with 74(10)28 west, 167.24 feet for a point; There so with 86/27/237 west, 16.37 feet for a point; There so with 76(10)28 west, 167.24 feet for a point; There so with 76(10)28 west, 167.24 feet for a point; There so with 76(4)24 west, 150.35 feet for a point; There so with 76(4)24 west, 150.35 feet for a point; There so with 76(4)24 west, 150.35 feet for a point; There so with 76(4)24 west, 150.37 feet for a point; There so with 76(4)24 west, 150.37 feet for a point; There so with 76(4)24 west, 150.37 feet for a point; There so with 76(4)24 west, 150.37 feet for a point; There so with 86/2240 west, 150.47 feet for a point; There so with 86/2240 west, 1224 feet for a point; There so with 86/2240 west, 1224 feet for a point; There so with 86/2240 west, 1228 feet for a point; There so with 56/2702 west, 135.55 feet for a point; There so with 56/2702 west, 135.55 feet for a point; There so with 56/2702 west, 135.55 feet for a point; There so with 56/2702 west, 135.55 feet for a point; There so with 86/2240 west, 135.56 feet for a point; There so with 86/2240 west, 135.56 feet for a point; There so with 86/2240 west, 135.56 feet for a point; There so with 86/2240 west, 135.56 feet for a point; There so with 86/2240 west, 135.56 feet for a point; There so with 86/2240 west, 135.56 feet for a point; There so with 86/2240 west, 135.56 feet for a point; There so with 86/2240 west, 135.56 feet for a point; There so with 86/2240 west, 135.56 feet for a point; There so with 66/2526 feet along a curve to the right hav

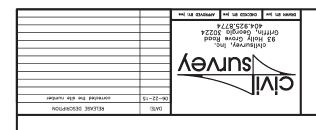
Thence, North 38'26'02" West, 100.00 feet to a point; Thence, North 51'33'58' East, 100.00 feet to a point; Thence, South 38'26'02" East, 100.00 feet to a point; Thence, South 51'33'58" West, 100.00 feet to a point and the true POINT OF EGINNING.

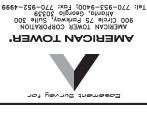
Said tract contains 0.2296 acres (10,000 square feet), more or less

# 30' INGRESS-EGRESS AND UTILITY EASEMENT

Together with a 30' Ingress—Egress & Utility Easement lying and being in the 52nd G.M.D., Laurens County, Georgia, and being more particularly described by the following centerline data:

BECINNING at a point located on the western right of way of State Highway 199, said point being 2844.5 feet, more or less, as measured along said right of way in a northest direction the intersection of said right is with the northern right of way of Interstate 16. There is 151.56 feet along a curve to the right, having a clid is of the point; Thene. 151.56 feet along a curve to the right, having a radius of 500.00 feet and being scribed by a chord bearing South 827.135 West, 150.59 feet to a point; Thene. North 827.225 West, 150.36 feet to a point; Thene. 103.33 feet doing a curve to the right, having a radius of 400.00 feet and being scribed by a chord bearing South 827.135 West, 150.36 feet to a point; Thene. 224.39 feet foling a curve to the right having a radius of 400.00 feet and being scribed by a chord bearing South 827.142 West, 150.35 feet to a point; Thene. 259.58 feet along a curve to the right having a radius of 400.00 feet and being scribed by a chord bearing North 827.142. West, 152.56 feet to a point; Itene. 259.58 feet along a curve to the right having a radius of 855.60 feet and being scribed by a chord bearing North 827.142. West, 181.55 feet to a point; Itene. 182.79 feet along a curve to the left having a radius of 850.00 feet and being scribed by a chord bearing North 827.142. West, 181.55 feet to a point; Itene. North 827.30 feet along a curve to the right having a radius of 200.00 feet and being scribed by a chord bearing North 871.142 West, 100.46 feet to a point; Itene. North 827.30 west, 13.88 feet to a point; Itene. North 827.30 feet along a curve to the right having a radius of 200.00 feet and being scribed by a chord bearing North 871.43 west, 160.00 feet to a point; Itene. 103.66 feet along a curve to the right having a radius of 200.00 feet and being scribed by a chord bearing North 827.30 feet to a point; Itene. 103.68 feet along a curve to the right having a radius of







City: (unincorporated) and Lot: N/

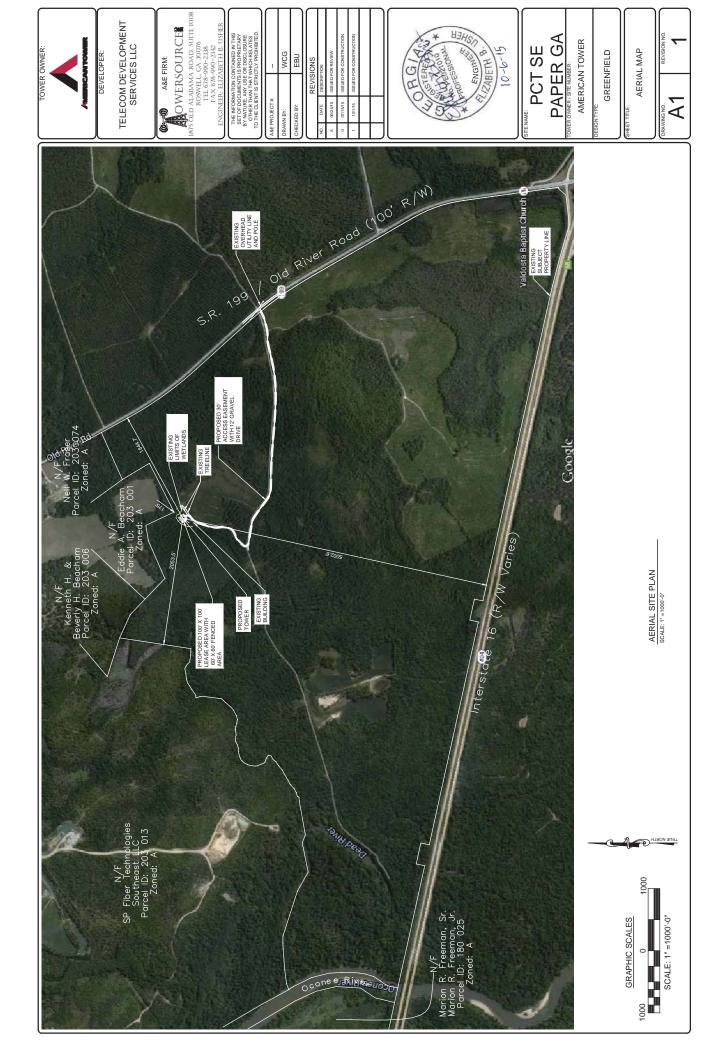
si Project Number: 2015.010 County: Laurens tate: Georgia

No. 13128

"PCT SE Paper GA - 201440"

A SURVETOR





ALL CONSTRUCTION TO COMPLY WIT H2012 BUILDING CODES

- CONTRACTOR IS TO COMPLY WITH THE REQUEST FOR QUOTATION (RFQ) AND CONSTRUCTION SPECIFICATIONS (LATEST REVISION) & BUILDING MANUFACTURER'S DRAWINGS, ALL PREVIOUSLY
- DIMENSIONS TO ALL EXISTING SITE FEATURES SHALL BE FIELD VERIFIED BY THE CONTRACTOR & ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES, PIPES OR ANY NOTHER SUBSILIRACE STRUCTURES ROPE TO COMMENOING WORK. THE CONTRACT SHALL CONTILITY LOCATING SERVICE 48 HES PRIOR TO CONTRACT THE LOCAL UTILITY LOCATING SERVICE 48 HES PRIOR TO DIGGING, DRILLING, OR BLASTING.
- DEVELOPERSY REPRESENTATIVE SHALL BE NOTHEID IN WRITING OF ANY CONDITIONS THAT VARY RECM THE PLANS. THE CONTRACTORS WORK SHALL NOT VARY PROM THE PLANS WITHOUT THE EXPRESSED WRITITAL APPROVAL OF DEVELOPERS CONSTRUCTION PROJECT MANAGER OR DEVELOPERS REPRESENTATIVE.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO EXAMINE ALL DRAWINGS & SPECIFICATIONS AND TO CORDINATE HIS WORK WITH THE WORK OF ALL OTHERS TO ENSURE THAT WORK PROGRESSION IS MOTI INTERRUPTED.
- CONTRACTOR SHALL KEEP THE PROJECT SITE FREE FROM ACCUMULATION OF WASTE MATERIALS & REGISSH AT ALL TIMES DIRING THE CONSIRRUCTION PERIOD, & SHALL REMOVE ALL WASTE MATERIALS & RUBBISH FROM THE PROJECT SITE AT THE COMPLETION OF WORK, EXCEPT THOSE SPECIFICALLY REQUIRED BY THE CONTRACT POCUMENTS TO BE LIET TOR THE OWNERS MAINTENANGE. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH THE PROPERTY OWNER AS TO AVOID ANY INTERRUPTIONS WITH THE PROPERTY OWNER'S OPERATIONS.
- THE CONTRACTOR SHALL RESTORE ALL PROPERTY TO IT'S PRE-CONSTRUCTION CONDITION TO THE OWNER'S SATISFACTION.
- THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY DISTURBED. MAMBEE, OR PERMOY LO FRONDMENTATION SHALL BE FEEPLAGED AT THE CONTRACTOR'S EXPENSE. UNDER THE SHERVISION OF A REGISTERED LAND SURVEYOR.
  - DAMAGE TO EXISTING STRUCTURES & UTILITIES SHALL BE REPAIRED OR REPLACED TO OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE. MAINTAIN FLOW FOR ALL UTILITIES.
- ALL UTILITY CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER OR OWNER'S REPRESENTATIVE AND THE UTILITY COMPANY PRIOR TO EACH CONNECTION.
- UNLESS OTHERWISE INDICATED, DEVELOPER SHALL OBTAIN & PROVIDE CONSTRUCTION PERMITS. THE COUNTRACTOR SHALL DRSTAIN AT HIS GOWNE VERBEIS. ALL REQUIRED LOCAL, CITY, STATE ANDOR COUNTY CONSTRUCTION LICENSES, JPON CONHIT CONDENSULCTION THE WORK, THE CONTRACTOR SHALL APPLY FOR & PROVIDE A CERTIFICATE OF OCCUPANCY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE FOR CONSTRUCTION.
- 15. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, & FEDERAL REGULATIONS.
- CONSTRUCTION WASTE MAY NEITHER BE BURNED NOR BURIED AND MUST BE TAKEN TO AN APPROVED
- CONSTRUCTION MATERIALS OR EQUIPMENT. CONTRACTOR SHALL ENSURE THE SHELTER IS CLEANED AT CONCLUSION OF CONSTRUCTION AND THE FLOOR CLEANED, WAXED, AND BUFFED TO SHINE. CONTRACTOR IS RESPONSIBLE FOR THE CONDITION OF THE SHELTER DURING AND AFTER CONSTRUCTION. THE EQUIPMENT SHELTER SHALL NOT BE USED FOR STORAGE OF TOOLS 17. SECURITY TO THE SITE SHALL BE MAINTAINED AT ALL TIMES.
- FOR GREENFIELDNEW TOWERS SITES, CONTRACTOR IS RESPONSIBLE FOR ENSURING THE TOWER IS TO PPED LIGHTS ARE MOVILORED MOSNING. AND MOHE FORCH, THE TIME THE TOWER IS TO PPED OUT UNIT IS ITE HAS ALARMS CONNECTED TO THE OPERATIONS SWITCH OR NOC. CONTRACTOR TO WORTPY PROJECT MANAGER AT THE TIME THE TOWER IS TOPPED OUT TO FORWARD NOTIFICATION TO DEVELOPER.

### LEGEND

COMPRESSIO	•	METER	<b>8</b>
CADWELD TYR		DISCONNECT SWITCH	
GROUND ROD	Ø	EASEMENT	
GROUND ROD	8	LEASE AREA	
CHEMICAL GR	•	PROPERTY LINE / ROW	
CODED NOTE	$\otimes$	CONTOUR LINE	920
CIRCUII BRE	°	FENCE	- Y- LENCE

- ROUND ROD NUMBER JIT BREAKER
- D WITH INSPECTION SLEEVE
  - COMPRESSION TYPE CONNECTION *(PE CONNECTION*
- GROUND WIRE

- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC 'SPECIFICATION FOR THE DESIGN, FABRICATION & ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- DESIGNA & CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFCRAIT TO THE LATEST EDITION OF THE FOLKOMING APPLICABLE CODES AQ 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BULDINGS", A318 "BULDING CODE REQUIREMENTS FOR REINFORCED CONTRETE". 2. MIX DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING CONCRETE. ALL INTERIOR STRUCTURAL STEEL SHALL BE FINISHED WITH ONE COAT FABRICATOR'S NON-LEAD, RED TOOKE PRIME, PRIMING SHALL BE PERFORMED AFTER SHOP FABRICATION TO THE GREATEST EXTENT POSSIBLE, ALL DINGS, SCRAPES, MARS, & WELDS IN THE PRIMED AREAS SHALL BE REPAIRED BY FIELD TOUGH-UP PRIOR TO COMPLETION OF THE WORK.
- ALL EXTERIOR STRUCTURAL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH THE SPECIFICATION ARM AZS ULLESS CHIEFWINE NOTE OF GALVANIZING SHALLE BE PERFORMED AFTER SHOP FABRICATION TO THE GREATEST EXTENT POSSIBLE. ALL DINGS, SCRAPES, MARS, & WELDS SHALL BE REPAIRED BY RELD TOUCH-UP PRIOR TO COMPLETION OF THE WORK.
- HOLES SHALL NOT BE PLACED THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON THE DRAWINGS.

CONNECTIONS:

\*ALL WELDING SHALL BE ONE USERVICE TROYS ELECTROES AND SHALL CORPORATION OSC AND WAYS

DOT I WINEFEER ELLET WELL SHEET SHOWN SHOWN PROVIDE THE IMMINIMA SIZE PER YAGE, E.Z.A. IN
THE ALEC WANIALL OF STEEL CONSTRUCTION: 13th EDITION AT THE COMPLETION OF WELDING, ALL
THE ALEC WANIALL OF STEEL CONSTRUCTION: 13th EDITION AT THE COMPLETION OF WELDING, ALL
MAKE AN IMMINIMAL OF YOR DOLD SHALL USE BEANDED TO THE WINSE.

BOLTS DOUGE CHOKE SHALL USE BEANDED THE WINSE.

MON-STRUCTION, ONWECTIONS, STEEL GRATING MAY USE EIG TO A GALVANIZED ASTM ASST

MON-STRUCTION. TO DON'ECTION SET OF STEEL GRATING MAY USE EIG TO REVIEW AND APPROVAL BY ENGINEER.

CONNECTION DESIGNS BY PABRICATOR WING.

5.3. 5.4 5.2.

## REINFORCEMENT NORMAL WEIGHT AGGREGATE CONCRETE MATERIALS: PORTLAND CEMENT

5. REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315. ASTM C 150, TYPE I ASTM A 185 ATSM C 33 NON-CHLORIDE WATER ADMIXTURES

CONCRETE SHALL BE NORMAL WEIGHT, 6% AIR ENTRAINED (±1,5%) WITH A MAXIMUM 4" SLUMP AND A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI UNLESS NOTED OTHERWISE.

- 6. REINFORCING STEEL SHALL CONFORM TO ASTM A616, GRADE 60, DEFORMED, UNLESS NOTED COTFEWIGE. WITH SHALL CONFORM TO ARRAN LESS NOTED OTHERWINGE. SHALL BE CLASS TO ATT SHALL ON TO THE WINGES. SHALL BE CLASS TO ATT SHALL SHALL BE ASTM STANDARD UNLESS NOTED OTHERWINE.
  - 3 IN #6 & LARGER 2 IN, #5 & SMALLER 1 1/2 IN 3/4 IN NON-CHLORIDE MINIMUM COVER FOR REINFORCING STEEL: CONCRETE CAST AGAINST EARTH NON-EXPOSED SLAB & WALL NON-EXPOSED BEAMS & COLUMNS
- A 3.4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE IN ACCORDANCE WITH ACI 301, SECTION 4.2.4.
- INSTALLATION OF CONCRETE EXPANSION/MEDGE ANCHOR SHALL BE PER MANUFACTURERS RECOMMENDATIONS. NO REINFORCING SHALL BE CUT WITHOUT ENGINEER'S APPROVAL.
  - 10. CURING COMPOUNDS SHALL CONFORM TO ASTM C 309.
- 11. ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN ACI 301.
- DO NOT WELD OR TACK WELD REINFORCING STEEL.

- REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
- 15. CONCRETE SHALL NOT BE PLACED IN WATER, ICE, OR ON FROZEN GROUND.
- 16. DO NOT ALLOW CONCRETE SUBBASE TO FREEZE DURING CONCRETE CURING AND SETTING PERIOD.
  - FOR COLD WEATHER & HOT WEATHER PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS.



## TELECOM DEVELOPMENT SERVICES LLC

# A&E FIRM: OWERSOURCE

LD ALABAMA ROAD, SUITE 1008 ROSWELL, GA 30076

				l
IN THIS	OSURE	LATES	HBITED	l
ATAINED S PROPR	R DISCL	HICH RE	TLY PRC	l
THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY	BY NATURE. ANY USE OR DISCLOSURE	OTHER THAN THAT WHICH RELATES	TO THE CLIENT IS STRICTLY PROHIBITED	l
FORMAT F DOCUM	URE. AN	R THAN	CLIENT	l
SETO	BY NAT	OTHE	O THE	l

	WCG	EBU	REVISIONS	PTION	ISSUED FOR REVIEW	ISSUED FOR CONSTRUCTION	ISSUED FOR CONSTRUCTION	
			REVI	DESCRIPTION	ISSUED	ISSUED	ISSUED	
A&E PROJECT #:	DRAWN BY:	CHECKED BY:		DATE	08/24/15	07/15/15	10/1/15	
AGE P	DRAW	CHEC		ON	٧	0	+	



### PAPER GA PCT SE

AMERICAN TOWER

GREENFIELD

GENERAL NOTES

